

**W2NPT**

The Resonator

Official Newsletter of The Fair Lawn (NJ) Amateur Radio Club**Volume 4, Number 3****www.FairLawnARC.org****March 2019**

From The President:

To FLARC members:

In 2018 the FLARC council promised we would execute a two year plan to improve the operating stations at the FLARC club. In 2018 we improved the antennas, towers. The goal for 2019 is to purchase new HF radio(s)! This is a very exciting but challenging goal for the year. To achieve this goal we will need assistance from our members and friends of the club. FLARC is asking for monetary gifts that will 100% go towards the new radio purchases for the club. To show the club is committed, we will be matching any money received 1:1 up to \$2500. I want to push this goal even further and ask that we get this done by June so we can have the new radio(s) in time for 2019 ARRL Field Day.

It is the time of the year when we have to start planning for Field Day. If you have any ideas or thoughts on Field Day this year please submit them to the board (email: board@FairLawnARC.org) so we can review them and help you execute them.

Continue to watch your emails for Thursday club opening times along with other events that our new list of openers will be bringing to the club.

DE Brad KM2C

Member Profile

NAME: **Zach Feinberg** CALL: **KC2RSS**

What do you do/what did you do for a living?

I am a DevOps engineer for a startup in the West Village in NYC. I am part of a team that maintains the cloud systems, IT infrastructure, and Information Security compliance for the company.

How did you get interested in ham radio?

A friend's father told me about the hobby thinking I'd enjoy it; a few months later I took the test at a BARA hamfest and joined FLARC shortly after that (Summer 2007). I have been involved ever since.

What parts of the hobby most interest you?

I enjoy HF although I don't use it very often due to not having HF antennas at home. I have lately been heavily involved with various MESH related projects with other club members working on enhancing the capabilities of software used on the mesh to provide better capabilities for events we assist with such as the Fair Lawn Fireworks, Passaic County Fair, and various emergencies.

What does belonging to FLARC mean to you?

Over the years I have learned quite a lot from the various members of the club, and I think that my ability to do so many things in engineering is directly related to the knowledge that I have gotten from elmers at the club over the years. I enjoy spending time at the Club as often as I can. These days I tend to try to assist the club by mentoring newer hams, and assisting with the development of mesh capabilities to use in the area.

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Continued on page 4.

The Club Fair Lawn ARC is the fastest growing ham club around, with five operating positions in a permanent clubhouse. Visitors and guests are always welcome. The club is open every Friday night from NLT 6:30 PM. Business meetings are the first Friday of the month at 7:30PM.

2018 Officers, Committees and Assignments

President	Brad Kerber	KM2C
Vice President	Lowell Van't Slot	W2DLT
Treasurer	Al Rasmussen	WA2OWL
Secretary	Randy Smith	WU2S

Trustee	J Cooper	W2JC
Trustee	Skip Barker	KD2BRV
Trustee	Don Cassarini	N2PRT

Field Day	Steve Wraga	WA2BYX
Member Services	Judith Shaw	KC2LTM
Publicity	Ed Efchak	WX2R
Publicity	Gene Ottenheimer	WO2W
Publicity	Susan Frank	W6SKT

Program	Lowell Vant Slot	W2DLT
Publicity	Karl Frank	W2KBF
Publicity	Brad Kerber (ex officio)	KM2C
Social Media	Dave Marotti	NK2Q
Video/YouTube	Thom Guida	W2NZ
VE Liaison	Gene Ottenheimer	WO2W
VE Liaison	Pete Senesi	KD2BMX
Education	Gordon Beattie	W2TTT
Education	Randy Smith	WU2S
Education	John L. Howard	KD2NRS
Education	Fred Wawra	W2ABE
History	Fred Belghaus	W2AAB
Health and Welfare	Judith Shaw	KC2LTM
Photographer	Don Cassarini	N2PRT
W2NPT Trustee	Paul Cornett	W2IP
Technical	Paul Cornett	W2IP
Technical	Randy Smith	WU2S
Technical	Fred Wawra	W2ABE
RACES Director	Dave Gotlib	KD2MOB
RACES Liaison	Steve Wraga	WA2BYX

Newsletter Editor	Ed Efchak	WX2R
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FL Town Liaison	Gene Ottenheimer	WO2W
Net Scheduler	Brian Cirulnick	KD2KLN
Quartermaster	Brian Cirulnick	KD2KLN

Fair Lawn RACES Corner



March is here, and with spring right around the corner, the temperatures are starting to warm up with Fair Lawn-RACES and Fair Lawn-ARES activities. **Yes, we have very exciting news** - the formation of FL-ARES (Amateur Radio Emergency Service) sponsored by the ARRL! Please see the paragraph regarding FL-ARES below.

The formation of FL-ARES took place on Friday, February 1st. I would like to thank Randy WU2S for organizing FL-ARES. The Constitution, By-Laws and Training Plan were adopted and since then we received our call sign - **KD2RJD**. This call sign will likely be replaced by a vanity call sign in the not-to-distant future. FL-ARES will work in conjunction with Bergen County ARES, Passaic County ARES as well as other local ARES organizations and municipalities when needed. This is happening at a time when the ARES through the ARRL is undergoing a 21st century makeover - the timing can't be any better. Please see the ARRL-ARES article linked below.

New ARES plan aligns ARES with the needs of Served Agencies:

<http://www.arrl.org/news/new-plan-aligns-ares-with-the-needs-of-served-agencies>

The website for signing up for ARES activities and Nets is as follows:

<https://arrl.volunteerhub.com/lp/nnj>

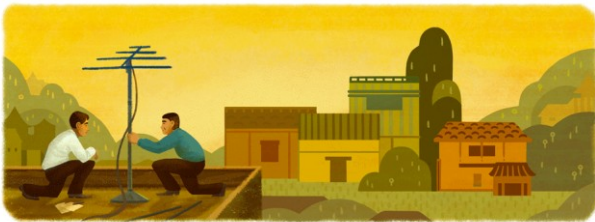
Our very first FL-ARES KD2RJD Net took place on Wednesday, February 27th and was well attended. Our 2nd FL-ARES Net will take place on Wednesday, March 6th at 1900 on the FLARC Repeater.

Continued on page 34.

MASTER EVENT CALENDAR

2019 Activities

March 15, 2019	Joe Taylor K1JT "Using FT8 and Recent Improvements" (at Sr.Center)
April 19, 2019	John Hale KD2LPM and others "The Garden School ARC and Developing Young Hams" (at Sr.Center)
April 29, 2019	"Earth Day At Great Falls National Historical Park" - W2E
May 4, 2019	Garretson House 300th Anniversary Special Event Station - W2G
May 11, 2019	Portable Day/Mini Fox Hunt With BARA
May 17, 2019	RSGB Propagation Workshop or TBD
June 9, 2019	Fair Lawn Street Fair (Radburn)
June 22-23, 2019	Field Day, Memorial Park, Fair Lawn
August 2019	FLARC Vintage Night II (at FLARC)
October 20, 2019	Fair Lawn Street Fair (River Road)
TBD	"Bring Your Own Boat Anchor" -- An evening of storytelling and demonstrations
TBA	W1TP Enigma Presentation w/Fair Lawn Public Library



Hidetsugu Yagi's 130th Birthday Google Doodle

Follow FLARC ON THE WEB

Facebook: <http://facebook.FairLawnARC.org>
Twitter: @FairLawnARC
Blog: <http://blog.FairLawnARC.org>
Youtube: <http://youtube.FairLawnARC.org>
Website: <http://FairLawnARC.org>

FLARC VEC Exams

Our next test sessions are scheduled for **Saturday, March 9th** beginning at 09:00 at the Community Center. No advanced registration is required but always appreciated. The fee is \$15.00 (cash or check).

Please bring positive identification (license, passport, etc.), your original license and a copy, original CSCE and a copy (if credit is needed).

The full exam schedule is on the club calendar at the FairLawnARC.org website. For further information contact VE-Liason@FairLawnARC.org.

Please refer also to the "License Exams" link on the main website--

<http://testing.FairLawnARC.org>

We appreciate your support of the Fair Lawn Amateur Radio Club!

This is your Club! Be part of it!

Member Profile (Continued)

What should be the club's priorities in the next year?

I think that furthering the use of our equipment and teaching members how to use it better, along with the various digital (HF & MESH) options we have would be great. A lot of the advanced features of our HF rigs are not well understood, unfortunately, by large numbers of club members (myself included).

The MESH equipment has large amounts of unexplored potential for long term use in order to provide advanced capabilities on top of the basic VOIP phones, Google Docs like systems, and cameras that we have used in the area to truly revolutionize the way that we are able to communicate for emergencies and large scale events.

What else can you tell the club about yourself and/or ham radio?

I also develop Minecraft mods, and maintain servers for some open source projects in my spare time.

What other ham related clubs or organizations do you belong to?

I am currently only a member of the ARRL and the Fair Lawn RACES/ARES group in addition to FLARC.



Zach KC2RSS

Please Note: Operating W2NPT

Starting in January club trustees will have sign-in sheets for all operating positions. There is a clipboard at Operating Position #1, #2 (digital) and #4 with a form on which to sign up for half-hour time slots. No longer first come-first served, in fairness to all who want to use our club equipment and the new antennas. More details to follow.

Get Direct With FLARC!

Here is a direct link to specific club info: just a click away!

<http://apparel.FairLawnARC.org>
<http://auction.FairLawnARC.org>
<http://blog.FairLawnARC.org>
<http://calendar.FairLawnARC.org>
<http://events.FairLawnARC.org>
<http://exams.FairLawnARC.org>
<http://facebook.FairLawnARC.org>
<http://testing.FairLawnARC.org>
<http://news.FairLawnARC.org>
<http://swap.FairLawnARC.org>
<http://tech.FairLawnARC.org>
<http://youtube.FairLawnARC.org>

NEW !

<https://groups.io/g/FairLawnARC>



February 2019 Blog Traffic

Recent changes to the Wordpress algorithm has reduced our view and visitor counts so comparability is difficult. But we will keep reporting! Here is the data:

	February 2019	February 2018	Change
Views	480	550	-13%
Visitors	216	311	-31%
Posts	9	13	-31%

There is new content nearly every day so it's really worth the look to both FairLawnARC.org and the blog.

<http://blog.FairLawnARC.org>

The FLARC Survey Data Is Out!!

With over 100 members participating in this year's annual member survey, club PIO Ed WX2R reviewed this year's findings with the club on February 15th with over 40 in attendance. Some of the top-line findings are as follows:

- While the club has grown rapidly, a majority of the club *wants it to continue to grow* both in size and reputation.
- There is *high satisfaction* in the current direction of the club
- The club is most important for *staying connected* with other members
- *Creating more time for the club to be open* aside from Friday is a clear desire from many members.
- Having more projects and items that involve learning are very important to members
- "Finding me more time" to be involved in the club is a frustration for more than four in ten members
- A majority of survey respondents would be willing to make an additional voluntary monetary contribution to the club to improve equipment.
- Few members are active testers and there is little interest in having the club place an emphasis on contesting.

In addition we found that among club members who responded to the survey:

- Four in ten members are *exclusive* FLARC members
- Half claim to be *currently active* in the club
- *One in four* would be "active participants" in taking advantage of the club's being open on a day other than Friday; Saturdays and Thursdays are top preferences
- Most are interested in antennas and how they work followed by activities about computers, software and kit construction
- One in four are very interested in digital applications
- FLARC member interests are highly diverse — the average number of members by interest topic is 30.
- Half of all members hold Extra class licenses
- VHF is used by eight in ten members; HF by about seven in ten
- One in five have achieved an operating award (such as WAS)
- Seven in ten are involved in organizations such as ARES, RACES, CERT, SKYWARN, OEM, etc.

Club Apparel Is Here!!

Club apparel is always in vogue. Red is always in and your club friends all have them... you *want* a shirt or jacket for the next FLARC event!

Don't forget.... they're easy to order.

Go to www.hamthreads.com or visit <http://apparel.FairLawnARC.org> to **check out the item selection that is posted on the FLARC website (with pictures and prices)**. Order the shirts or other items you want with either the regular FLARC logo or the still-cool 60th anniversary logo.

Note: **RED** is the primary and preferred club brand standard shirt color.



Nomar NP4H proudly wears the FLARC colors at the February meeting.

Congratulations!

Pete (KD2BMX) reports the results of the February 9, 2019 FLARC VEC Amateur Radio Exam Sessions:

Total Number of Candidates served: 3

Congrats to all -- 3 passes!!

Name	Call	License Earned
James Barak	N2JAK	General
Robert Piccoli	KD2RJU	Technician
Aaron Gerdeman	KD2RIL	Extra



Dues Are Due

Get a jump on the calendar and send in your 2019 dues. Renewals are \$25 and are the best value in amateur radio clubs around. Don't forget to include an application form, which can be found on the website.

<http://membership.FairLawnARC.org>

2019 Officers and Trustees

President :	Brad	KM2C
Vice President:	Van	W2DLT
Secretary:	Randy	WU2S
Treasurer:	Al	WA2OWL

Trustee thru 2019:	Jim	W2JC
Trustee thru 2020:	Skip	KD2BRV
Trustee thru 2021:	Don	N2PRT

BEQUEATHS AND DONATIONS

Planned gifts usually imply the family donation of amateur equipment to the club when someone has become a Silent Key. But it can be more. Club members might consider making a gift through a will or trust; gifts that help provide lifetime income to the club. Consult with your lawyer, estate planner or tax advisor if you feel such a gift is worthy.

About The Club

The Resonator is published monthly and is the official (and only) newsletter of The Fair Lawn Amateur Radio Club. FLARC was established in 1956 and has met continuously since inception. **The club is sponsored by the Borough of Fair Lawn.** The club meets every Friday at 6PM at the club station in The Fair Lawn Community Center, 10-10 20th Street, Fair Lawn, NJ. Business meetings are the first Friday of the month at 7:30 PM.

Visitors **ARE ALWAYS** welcome at our meetings.

FLARC operates the W2NPT repeater (145.470- PL 167.9) located high atop the Community Center. The analog repeater is open to all amateurs for use without restrictions.

The club has over one hundred paid members. Dues are currently \$25 per year/\$20 for new members.

For more information, please see our website, at
<http://membership.FairLawnARC.org>

Wish You Were Here!



L to R: Ed WX2R, Dave N2AAM and Bob N2SU at SWL Fest Feb 28th

Dave N2AAM, Bob N2SU and Ed WX2R attended the three-day annual NASWA Winter SWL fest in Plymouth Meeting, PA. With over 100 SWLers attending, it's the largest gathering of its kind anywhere. You might think there is nothing worthwhile to listen to these days, but you're missing a lot. Lots of hams in attendance as you would expect and generally just a lot of fun.

Interested in Chasing DX?

A casual group of FLARCers including Van W2DLT, John KD2NRS, Brad KM2C, Karl W2KBF, Nomar NP4H, Steve WI2W, Larry WA2ALY, Fred W2AAB, and Jim W2JC have formed an email group to keep each other in touch in (real) time of when the rare or interesting ones show up to chase. Interested? See or contact Van W2DLT or Jim W2JC.



**FAIR LAWN'S
MINISTRY OF TECHNOLOGY!**
With New Antennas On The Roof!



Past FLARC Member Profiles

Here is a list of past member features and we welcome your recommendations for new profiles -- including your own.

Month	Name	Call Sign
January 2016	Pete	KB2BMX
February	Marco	KC2ZMA
March	Ron	KC2TBD
April	Kai	K2TRW
May	Larry	WA2ALY
June	Dave	N8MAR
July	Steve	WI2W
August	Thom	W2NZ
September	Brian	KD2KLN
October	Brad	KM2C
November	Al	WA2OWL
December	George	W3EH
January 2017	Fred	W2ABE
February	Dave	KD2MOB
March	Randy	WU2S
April	Lee	KD2DRS
May	Gene	WO2W
June	Carol	KD2NMV
July	Kevin	KC2KCC
August	Robert	KD2NOG
September	Robert	KD2BKD
October	John	KD2NRS
November	Fred	W2AAB
December	Margaret	W2GB
January 2018	Brian	KD2OAZ
February	Bennett	KO2OK
March	Van	W2DLT
April	Aly	ALØY
May	Bruce	NJ2BK
June	Dave	N2AAM
July	Karl and Susan	W2KBF and W6SKT
August	Steve	KA2YRA
September	Paul	K2PJC
October	Skip	KD2BRV
November	Jim	W2JC
December	Tom	N2AAX

By the way, Randy (WU2S) has compiled a binder of all back issues of *The Resonator* and it's located in the club office. Thanks Randy!!!

Back issues are also available on our website.

<http://newsletters.fairlawnarc.org>

Theoretics Demystified

The importance of proper grounding.

All radio equipment needs to be grounded. This usually comes to mind as just running a wire from the equipment to an electrical outlet using an ordinary piece of, let's say 14 gauge wire. That is probably fine for electrical tools and such but most if not all are either furnished with a 3 wire cord with a 'line' (power) a common and a separate ground wire which go to the familiar three prong plug.

This is where the similarity ends. When dealing with signals, RF or audio, the requirements change. As stated in a previous column, where you put the ground connection physically on a chassis can determine if there is hum introduced or not. There are also chassis ground and signal grounds. This really applies more to audio and radio internal circuits.

That said, we need to get back to the ham shack. First of all it is important that all equipment, if at all possible, be grounded to ONE point usually where the antenna feeds into the shack. That point needs to go to a ground rod and into the earth. The rod should be solid copper and into the earth as far as practical. The rod needs to be connected to the entry point grounding plate using a heavy braided conductor. The heavier the better and is a flat thick heavy gauge tinned braided conductor. A small gauge wire will act as more of an antenna at the given frequency because it will be resonant at a frequency determined by its length since that length will be a multiple or sub multiple of an RF frequency. Remember we are dealing with radio frequencies and the antennas for each band that we are interested in are cut so that their length matches as closely as possible the length, half the length, or a quarter of the WAVE length as possible. That is why we need to pay attention to the length of the grounding system. That is also why everything needs to go to one point otherwise you could have multiple 'antennas' in your shack! Remember we are dealing with impedance, that is AC resistance at RADIO frequencies. That is why the grounding system wiring can measure almost zero on your DC ohm meter but have a high 'resistance' at radio frequencies. If you do have a high impedance at a given frequency, you can have a good bit of RF in the shack and RF burns can be nasty. This is why it is important to learn all you can about RF and that happens when you study for your GENERAL license. Running 100 watts or less of RF output is not as critical as when you are running 1,000 watts or more!

Aside from the above: In spite of the ground rod being 'ground' it is not necessarily an RF ground. It may be necessary to run a counterpoise, a system of wires of a quarter wavelength for each ham band you are interested in using. 73, Fred, W2ABE.

2019 *Near and Far* Net Check-In's

Now in its third year, the FLARC *Near and Far* net is chugging along each week. Here is list of our check-ins beginning on New Year's Night in no particular order. Mondays at 8PM on the repeater.

Name	Call
Dave	N2AAM
Gene	WO2W
Van	W2DLT
Karl	W2KBF
Stan	KC2K
Ed	WX2R
Steve	WA2BYX
Brian	KD2KLN
John	K2BIX
Fred	W2AAB
Bob	KD2BKD
Randy	WU2S
Dave	KD2JIP
Larry	KD2QFI
Steve	WI2W
Brad	KM2C
Thom	WN2Z
Ron	KC2TBD
Jim	W2JC
Dave	KD2MOB
Bob	KM4CPU
Bob	KE0OPX
Phil	KA2SEY
Dave	NK2Q
Noel	N2OEL
Ray	KD2RBW
Larry	KD2QFI
Matt	K2FTP
Paul	K2PJC
Tom	WB2KWD
Brian	KD2OAZ
Bob	N2HIP
Al	KC2SAV
Chris	W2TU
Anton	K2PLB
Ray	KD2RIK
Watson	K3WAT
Kevin	KD2RJM

2019 Member Profiles

With Volume 4, we begin an new list of featured members in a monthly profile. See past profiles elsewhere in *The Resonator* to check back in the archives to see each member's background.

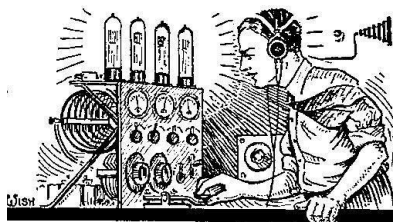
Month	Name	Call Sign
January 2019	Dave	KD2JIP
February	Jim	K2ZO
March	Zach	KC2RSS

Why Did You Join FLARC?

As part of the annual member survey we asked members who have been in the club for three years or less why they joined. Here is what they said:

- They have friendly people
- They have a physical station/multiple stations
- Have good equipment/new antennas
- VE sessions were an introduction to the club and joining it
- Programs were an introduction/regular programs/good speakers
- They have smart/technical members
- Recommendations by others/reputation/"good club"
- It's local
- It's better than other clubs/more happening
- I just wanted to learn about ham radio/get back into ham radio ("help me gain knowledge, make friends, overcome "uncertainty")





The Way We Were -- The Art Of The QSL (Part 8)

By Fred Belghaus W2AAB

This month, we continue our look at QSL art, but now we will focus upon "the ladies." Our amateur radio hobby has traditionally been called a "fraternity." It is, in the sense that it is a collegial society of people with a common interest. But in another sense, to call it that excludes a sizeable number of amateur radio operators — the ladies among us, many of whom may well think of our hobby as chiefly an "old boy's network."

"Radio Ladies"

No one knows with certainty when, where, and who the first female amateur radio operator was, because the first amateurs were not required to hold a license, and there were no published records of their names and addresses in those days. It is known that there were amateur wireless experimenters in the early 1900s, some documented examples dating from 1906 or earlier. (1)

The first national listing of amateurs was the *Wireless Blue Book*, published in 1909 by *Modern Electrics* magazine. A reading of this publication fails to uncover any discernible female operators. The first amateur licenses were issued in 1912.

Who was the first licensed "YL" operator in the United States? Until recently, that distinction has been given to Emma Candler of St. Mary's, Ohio, whose call was 8NH, obtained in January, 1915, and later, W8NH. (2) Further research reveals that the distinction belongs to one of two other women, both of whom were first licensed in 1913. One was Mary Alice McConaughy, 8EZ, of Cincinnati, Ohio. (3) The other was Hazel Smith, 6SM (QTH unknown, probably California), (4) but no further details are known about either of them.

Emma Candler's contribution was significant, though. She was the wife of high school Principal Charles Candler, 8ER. During World War I, when regular amateur radio operation was temporarily shut down, Emma and Charles worked secretly for the U.S. Government by "assisting in communications." (5) The exact nature of this "secret" work is not known.

It is interesting to note that just prior to the United States' entry into the first World War, the Navy Department established a "Girl's Division" of the Junior Naval Reserve, which featured training camps for women to become radiotelegraph operators for the war effort. One of these camps was the Martha Washington Post, located at Edgewater, Bergen County, New Jersey. (6)

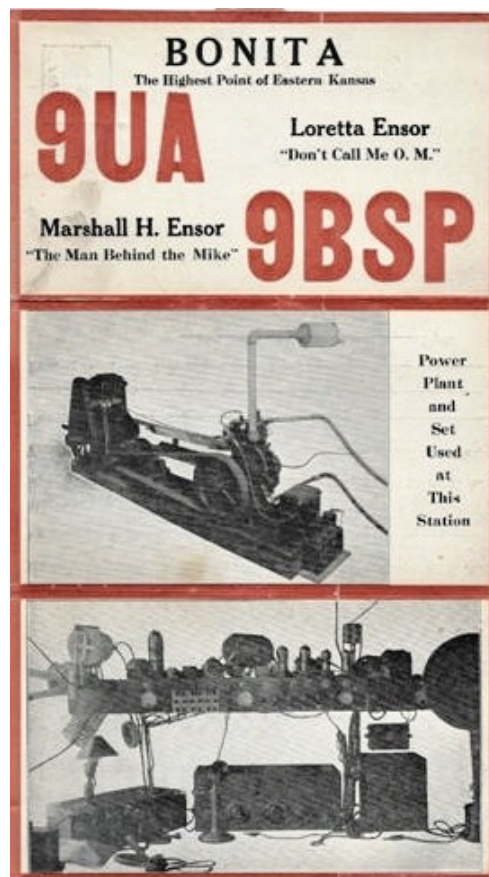
One of the earliest female operators was Loretta Ensor of Olathe, Kansas, whose call was 9UA, and later W9UA. Loretta shared an interest in radio with her brother Marshall. Marshall obtained his amateur license 9BSP (later W9BSP) in 1917, and Loretta followed close behind him by becoming licensed in 1923. (7)

The Way We Were

Loretta and Marshall were farmers. Their 90 foot windmill type radio tower on the Ensor Farm must have been an imposing sight in those days. It sported a modified “cage” antenna.



Here's the rest of their shared QSL from 1924.
Note Loretta's comment, "Don't call me O.M.":



The Way We Were

In 1929, the A.R.R.L. asked for amateurs to assist aspiring new hams with learning the code. Loretta and Marshall immediately established an on-air code practice schedule of 60 lessons sent under Marshall's call, W9BSP. They continued these code practice broadcasts for ten years. After Marshall's death in 1970, Loretta continued her amateur radio operation until her death in 1991. (8) Here's a later card, from 1939:

Radio <i>Dear Charles</i>	OLATHE, KANSAS	
Ur. <i>Card</i> Sig <i>1122</i> Hr <i>Dec. 5 - 1939</i>	R	S T
QRG <i>193.85</i> Conditions <i>Good</i>		
W9UA	RECEIVER Super Skyrider, SX-16 Philco, Type 60.	
Loretta Ensor	TRANSMITTER 1 KW—Pair 822 Modulated by Pair 822 class B—Thordarson 30 watt speech amplifier. 35 WT—210 modulated by 250 class A.	
ANTENNA Horizontal Hertz, Zep fed 246 feet long, 75-100 feet high. Antenna and counterpoise.	W9BSP	
Remarks: <i>Hope you can get us regularly and make good progress</i> Pse QSL QRK 73's	Marshall H. Ensor	

Another early example is the card of Gladys G. Hannah, of Cambridge, Massachusetts, whose call was 1KY. Not very much is known of Gladys' life.

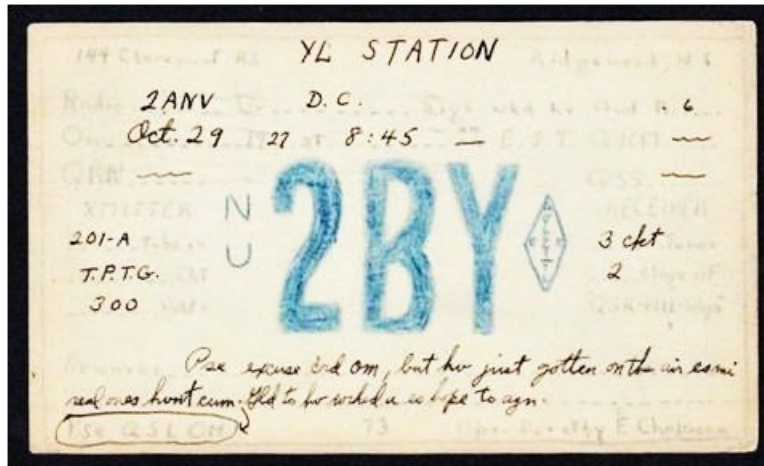
She was born in England around 1897, then emigrated to the United States, settling in Cambridge. She held an Official Relay Station appointment from the A.R.R.L., so she was a message handler active on their traffic nets. Gladys was last listed in the Summer, 1935 edition of the Call Book under the call W1KY. She passed away in 1940. (9)

Below is Gladys' QSL from December, 1926:

TRANSMITTER	3 SUMNER ROAD CAMBRIDGE, MASS.	RECEIVER
2 x 2.1 50 Watt Tubes	1-KY	Reinhartz
Coupled Hartley		20-40-80-150
1000 V. S Tubes		Detector es
Wave -----		2 Stage Audio
ORS	ADM E. Mass.	
<i>no called us on shed as at other times at night. how? Just think I could see on this sat as may go to Philo for James will eat in house where I sit 8:30 many times - see sister for me in RCC alt. 7/8 r.</i>		
73 GLADYS G. HANNAH		

The Way We Were

One of the most illustrious women in ham radio was Dorothy Chapman (later Saunders), 2BY (later W2BY). She was a local girl, originally residing at 144 Claremont Road, Ridgewood. Here's her hand-drawn card from 1927:



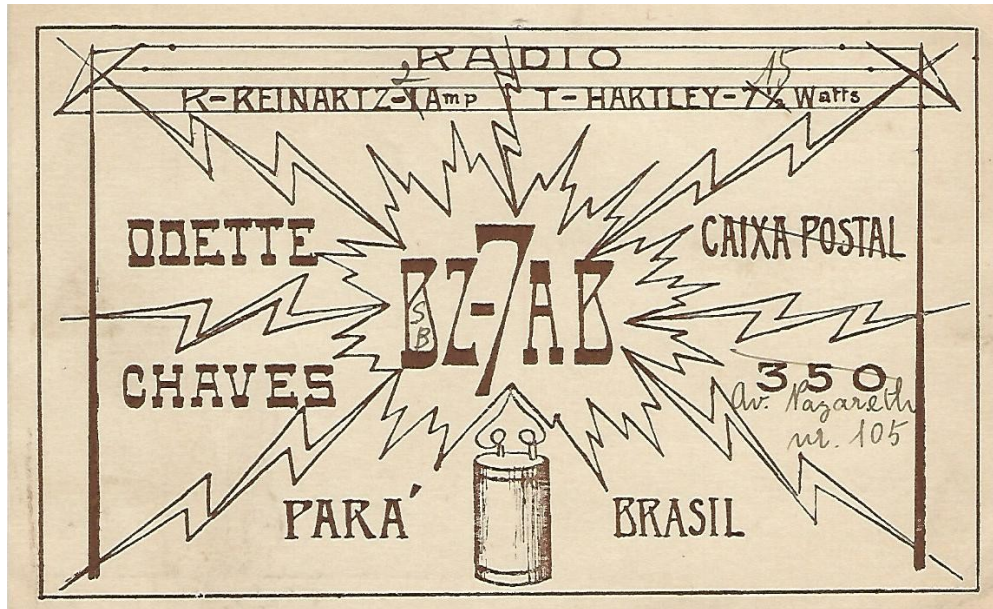
On the air, her name was "Dot." She married a non-ham and moved to Georgia, and became W4ZKD, then Florida, and became W4UF. She held an Advanced class license, was a superb CW operator, and member of the First Class CW Operator's Club (F.O.C.). She earned her PhD from the University of Michigan. Professionally, "Dot" was a research biologist associate at the Cape Haze Marine Lab, Cape Haze, Florida, specializing in the study of parasitology. Since 1935, she held an airplane pilot's license, and was a member of the Daughters of the American Revolution, an Instructor for the National Rifle Association, and an Inspector in Life Saving for the American Red Cross. Another of her hobbies was photography. (10)

The first documented female amateur operator in the United Kingdom was Miss Barbara Dunn, G6YL, licensed April 14, 1927. (10) Here's her QSL from 1933:



The Way We Were

Turning our attention south, another "Radio Lady" who was a "first" in her home country was Odette Cecy Chaves, originally BZ7AA, SB7AA, and SB7AB, in Brazil. Odette was first listed in government license records in June, 1927. Her final call was PY8AB. (14) Here's her QSL card from 1927:



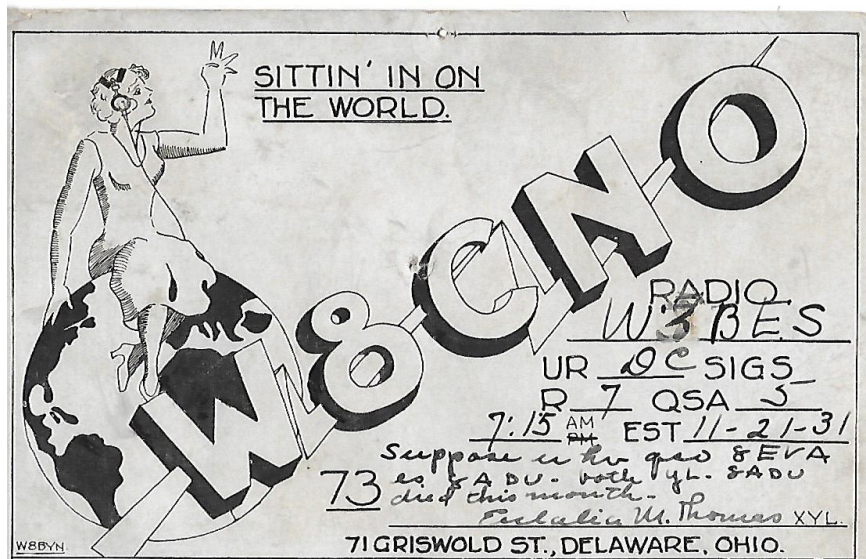
BILHETE POSTAL

<p>To radio <i>me 2 qf</i></p> <p>Ur sgns <i>wkd hr 10.20 14-6-1927.</i></p> <p>AUD. R <i>tra</i> <input checked="" type="checkbox"/> <i>ORM</i> yes <input checked="" type="checkbox"/> <i>ORN</i> yes</p> <p>QSS <i>nil</i> <input checked="" type="checkbox"/> <i>QRH</i> ?</p> <p>Rmks <i>Mr. Nolan.</i></p> <p><i>By gld to go w. Her</i></p> <p><i>gvr. Hope in often.</i></p> <p>Pls <u>QSL</u> <u>snd</u> <u>crd.</u> <i>Mami dr.</i></p> <p>Best <u>73's</u></p> <p><i>Miss O. Cecy Chaves.</i></p>	<p><i>Dx = sa, sb, su, sh, ef, eg,</i></p> <p><i>ei, ek, mi.</i></p> <p><i>Mr. G. T. Nolan.</i></p> <p><i>Hardenburgh Ave.</i></p> <p><i>Demarest.</i></p> <p><i>New-Jersey.</i></p>
--	--

Note that Odette's contact was with local station W2QF in Demarest. The "Reinartz" receiver referenced on the card was a circuit developed by John Reinartz, 1QP and 1XAM in the 1920s, and who later was made famous for his work in the first successful Transatlantic QSO in 1922. The "Hartley" transmitter was a simple, one tube triode oscillator, its frequency determined by the tank coil, tuning capacitor, and by the length of the antenna wire. They typically ran no more than about 10 watts input. The "DX" listed shows contacts with Europe, South America and North America.

The Way We Were

Apparently licensed in 1928, Eulalia M. Thomas, W8CNO of Delaware, Ohio, provides this QSL from 1931. She's literally sitting on top of the world.



The station worked was W3BES, onetime famous DX and contest operator, and one of the early members of the Frankford Radio Club.

Miss Evelyn (Eva) Cheel of Ontario, California, was born in 1893. She was licensed in the late 1920s, and held several calls during her amateur radio career, including W6AHP, W6BEW, and W6EVA. Her 1929 QSL, below, cleverly uses the call suffix "EVA" as both a play on her own name, and to illustrate a literary reference, well known to American readers in the early to mid 20th Century. The images depict operator Evelyn assuming the role of the character Evangeline St. Clare, "Little Eva" in Harriet Beecher Stowe's famous novel, Uncle Tom's Cabin. "QRM from Topsy" refers to the figure at left, an African-American child who, along with Uncle Tom, was befriended by the "frail, angelic daughter of a Southern slave owner," Little Eva. (15)



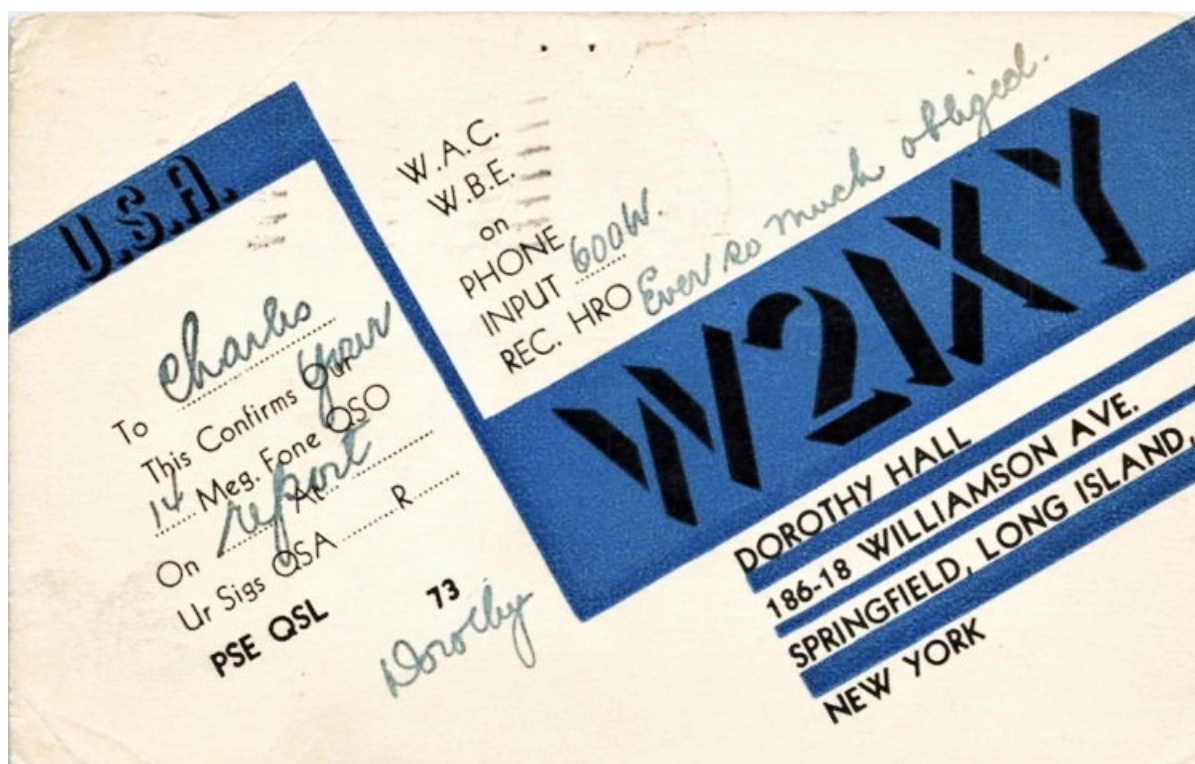
The Way We Were

"Topsy" and Eva" are shown here in an 1852 literary poster (16):



"Eva" Cheel became a Silent Key in June, 1971 at the age of 78.

Here's a 1938 card from Dorothy ("Dot") Hall, W2IXY, to a British SWL. It lists her station equipment as a transmitter running 600 watts input, and a National HRO receiver, a formidable station in those days.

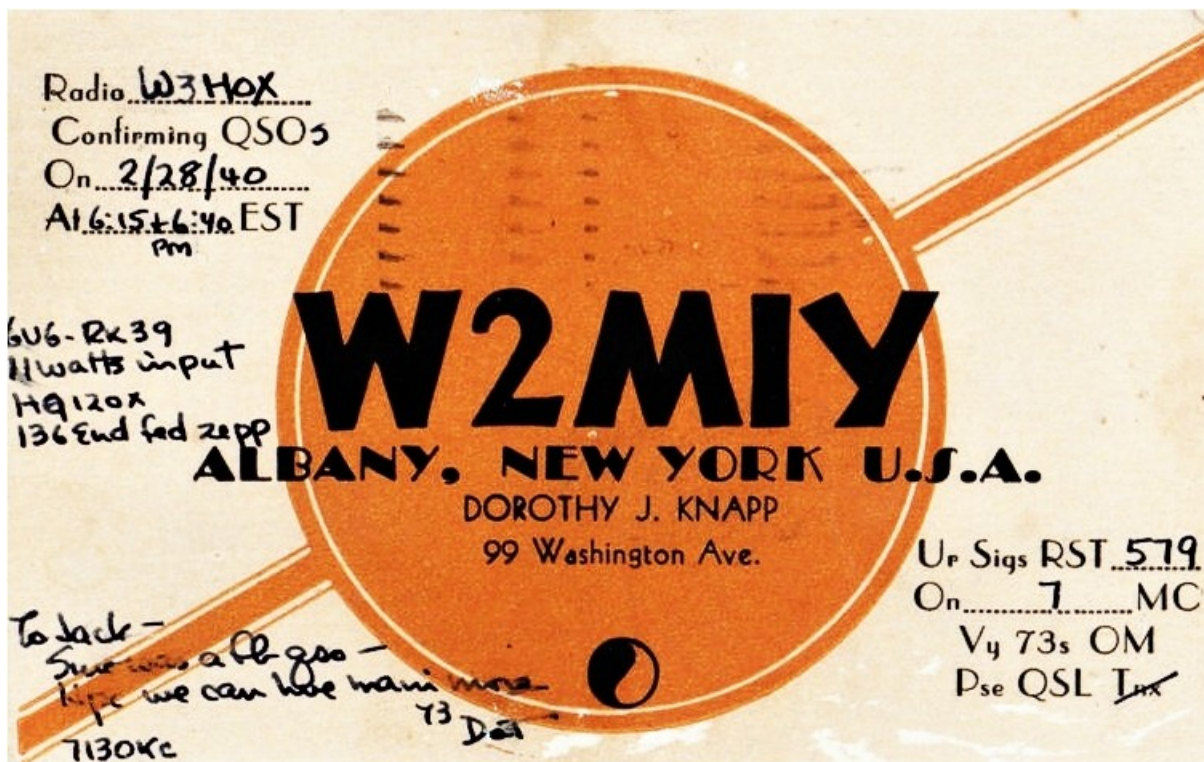


The Way We Were

Dorothy is reported to be the first “YL” to make contact with Tom Christian, VR6TC, on Pitcairn Island. Tom was a direct descendant of Fletcher Christian of “Mutiny on the Bounty” fame, and was one of the most sought after DX stations in the world. “Dot” discovered ham radio through her late husband, Navy Capt. Horace L. Hall, who wrote a monthly column on shortwave listening in the magazine *Radio News*. (17)

Another interesting, if mysterious QSO made by “Dot” was with station SU1A, allegedly operated by King Farouk of Egypt. This claim originally appeared in an article in *Readers Digest* magazine, and is referenced in an online article by W8SU. The article concludes, though, that the call SU1A cannot be authenticated. (18) Subsequent searches have substantiated that no such call appeared in the Call Book. However, if the operator really was the King, he wouldn’t need a license to operate, so the mystery remains.

Dorothy Knapp, W2MIY, of Albany, New York, was a member of the Albany Amateur Radio Club in 1940 and had served as its Treasurer. She was also a member of the Army Amateur Radio Service (A.A.R.S.), under the special Army call WLNG. She served as State Radio Aide of Eastern New York, and held an appointment as Assistant Emergency Coordinator for the A.R.R.L. During World War II, she was engaged in work for the U.S. Government. (19) Here’s her QSL from 1940:

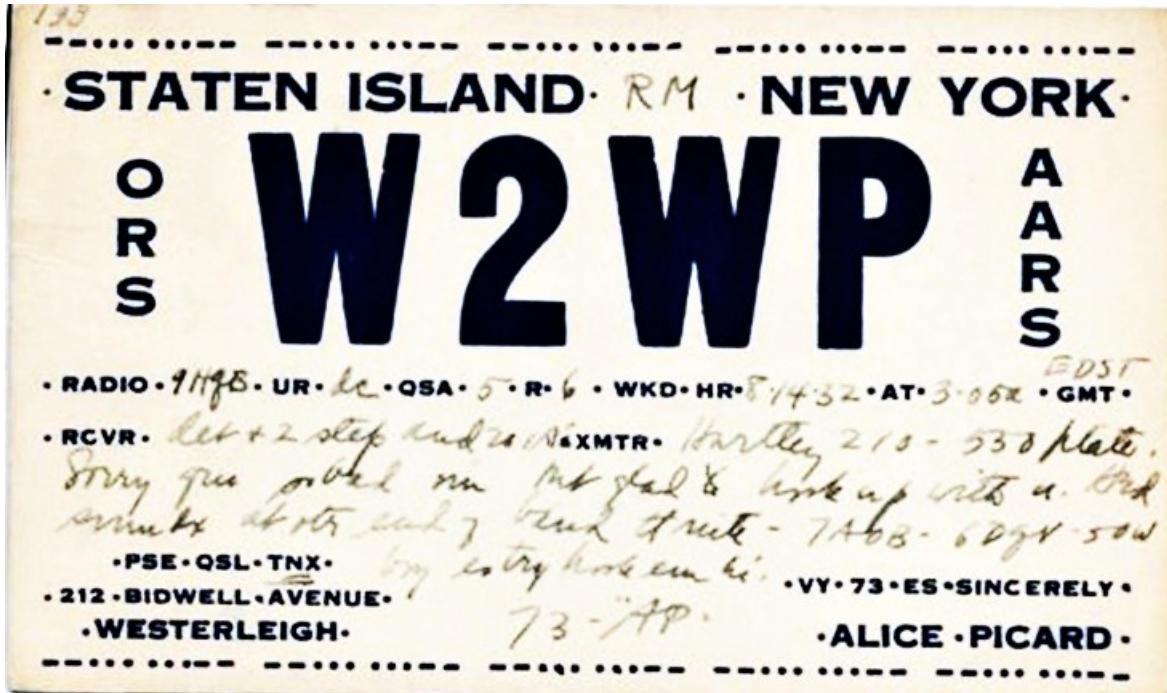


Alice Picard, W2WP, of Staten Island, was another early female operator, probably first licensed in the early 1930s. She was the daughter of George S. and Katie Picard. (20)

Not much more is known about Alice, except that she was born in 1909 and evidently remained unmarried, but still licensed at the same address until October, 2001, when she became a Silent Key at the age of 92. (21), (22)

The Way We Were

Here is an early QSL from Alice, dated 1932, on which she states that she held an A.R.R.L. appointment as R.M. (Route Manager), which means that at the time she was net manager, probably of the NYC-LI CW Traffic Net.



Elizabeth Zandonini, W3CDQ, was born in 1898. She obtained her commercial operator's license in 1917, while still in high school, and then her amateur license in 1922 with the call 3CDQ. Her on-air nickname was "Emzie." Among her many accomplishments, she was a well-known linguist, having mastered Italian, Spanish, French, and German. In 1921, she began using these skills as a technical translator-writer for the National Bureau of Standards in Washington. (23)

During the First World War, she joined the Public Health Service, and taught radio communications to disabled soldiers at Fort Meade and Fort McHenry. She was also an accomplished designer and builder of radio equipment, a skill considered unusual for women in those days. She was a member of the Institute of Radio Engineers (I.R.E.), the predecessor of the IEEE. Her operating preference was CW, especially on the 40 meter band. She was one of only a handful of women to join the Old Old Timers Club (O.O.T.C.) when she became a member in 1965, and was also past President of the YLRL. (24)

A 1925 newspaper article declares her a "remarkable young woman and one of the most skilled operators in Washington," describing her equipment and stating that she had built it all herself. (25) Here's her QSL card from 1938:

The Way We Were

W3CDQ

WASHINGTON, D.C.

3633 EVERETT ST., N.W.

Radio *W9WJD* Ur sigs. *599x* on *4* MC. AT *540 P.E.S.T. Feb. 4 1938*

Xmtr: *250T H. E. mas final - 800w* Rcvr: *Kath. AR O*

Remarks *Garri QRM so he look u - Kpe cu agw*

PSE QSL OM, TNX. 73 ELIZABETH M. ZANDONINI, "YL"

Radio Aid 13 of Standards

Luck es dy

Another "amazing" YL was Jean Hudson of Laurel, Delaware, who obtained her amateur operator's license in 1933, at the age of 8. She did not have her own call letters then, but operated from her father's station, W3BAK. In those days, you could get an operator's license only, with no call sign. She is said to have easily copied 25 WPM, typing the text while blindfolded. Her proud dad was Edgar Hudson, and Jean's 14 year old brother was also licensed as W3AXP. (26) No QSL card is available for Jean's operating, but here's a photo of Jean from the article in *Radio* magazine (cited above) describing her accomplishment:

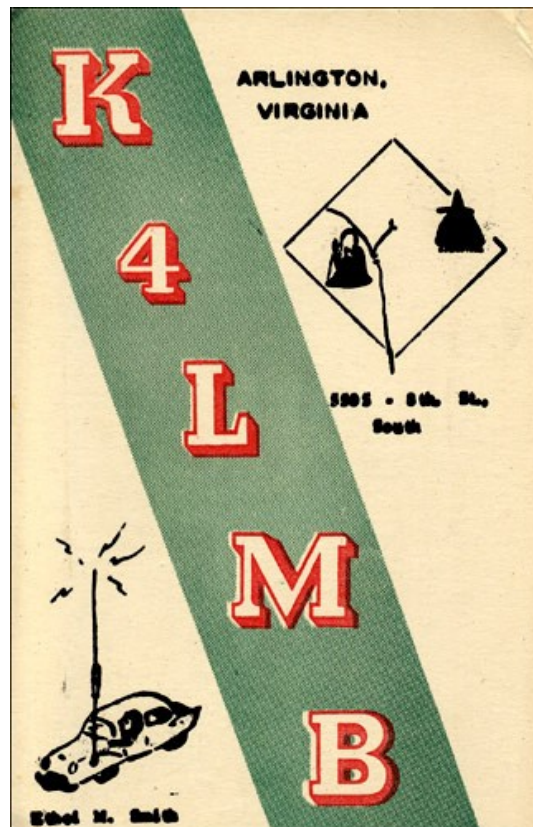


JEAN HUDSON—W3BAK
Eight-year-old Licensed Radio Amateur of Laurel, Delaware. "I had no idea how efficient she was until I sent her an SOS Message which she took without the slightest trouble in the world," said U. S. Radio Inspector Geo. E. Sterling of Fort McHenry, who examined Jean for license.

The Way We Were

According to one source (27), Jean eventually obtained her own station call, W2TEF, in New York City, which I believe would have been assigned in 1946, when she would have been 21 years old. It should be remembered that passing an amateur exam in the 1930s was no easy task. Not only did applicants have to demonstrate proficiency in the code at a minimum of 13 words per minute, the technical exam questions were not multiple choice. The applicant had to write essay type answers to the questions and draw schematics of every type circuit required in the exam. To do this at such a young age is an achievement hardly imagined today, regardless of license class.

One of the major contributors to the reputation and accomplishments of female amateur radio operators was Ethel Smith, originally licensed as W7FWB in 1936, then W3MSU, and later K4LMB. Ethel wrote a letter to QST in 1939, encouraging other "YL" hams to form their own organization. The result was the creation of the "Young Ladies Radio League," (YLRL), chiefly through Ethel's own efforts. The YLRL is a non-profit organization, global in membership, which provides a monthly newsletter, *YL Harmonics*, including an audio version for sightless members, and promotes continuing education by sponsoring two scholarship programs. They also hold annual conventions, and sponsor several operating contests during the year. (28)



Ethel was first President of the YLRL. She worked for the Naval Research Laboratory in 1945, and joined the Naval Reserve in 1950, serving ten years as a Reservist. She took part in the Foundation for Amateur Radio in 1957, and married FCC official "Tex" De Bardeleben, W4TE. She served as Section Emergency Coordinator for Virginia, and then A.R.R.L. Assistant Director under the terms of four Directors of the Roanoke Division. Later, Ethel held several executive positions with the Quarter Century Wireless Association, and was named a Fellow of the Radio Club of America. (29)


The Way We Were

Lenore Kingston (later Conn and Jensen), was not only a famous figure in ham radio, but in show business. Lenore was originally licensed in 1939 as W9CHD in Chicago. She later moved to New York, and became W2NAZ while working as a radio actress for NBC. After World War II, she moved to California and became W6NAZ. (30)



Most of Lenore's operating involved message handling and phone patches. During the Vietnam War, Lenore is said to have handled more than 50,000 phone patches for servicemen in South East Asia and their families back home. Her contacts in the entertainment industry enabled her to obtain appearances from celebrities on public service announcements for the A.R.R.L. (31) Her TV acting career included appearances on *The Twilight Zone* and *The Beverly Hillbillies*, among others. She was also the un-credited "Friend" laughing with actor Jim Backus on a comedy record in 1958. (32)

Here's Lenore's W6NAZ card from 1956:

		W6NAZ	
14867 Round Valley Dr. Sherman Oaks, California <i>near Hollywood</i>			
G3DQC	Jack	HELLO	! Try for a nice QSO!
559		REPORT	
14mc	CW	FREQ	73, <i>Lenore</i>
2255	PDT	TIME	
May 13	1956	DATE	per QSL 73
120w	3ele beam	REMARKS	
om-w6msec		Lenore Kingston Conn YLRL	

W6GY PRINT

The Way We Were

Lucia Mida (Mrs. Lee W. Mida), W9LW, was not only a well-known female operator in the 1930s, but an accomplished Amateur Golfer, as well.



W9LW playing in 1926 (Wikipedia)

She won the Western Women's Amateur in 1923, and the Florida Women's Golf Association's Match Play Championships in 1929 and 1930, but when the Association required Florida state residency thereafter, she declined to defend her title in 1931, choosing to remain in her home state of Illinois. She went on to win the Western Women's Open in 1930. Lucia's husband, Lee, was already an established golfer, having been the Chicago City Champion in 1909. Lucia's parents, August and Clara Gueth, were German immigrants. She passed away in 1952. (33)

Here's her 1933 QSL:

W2RZA U R 8 QSA 5 T 9 QRM QRN QRH

Remarks *Ok. card, qsa-hope qac. olin*

Receiver: 'Super-Hetrodyne-Hammarlund Pro' with Loud Speaker.

Xmitter: Crystal Control *1430* KC.
200 watts Input.

Antenna: 40 M. Zepp.

Hour *1:10 Pm*
Day *14th*
Month *July*
Year *1933*

MRS. LEE W. MIDA
6434 Dante Avenue, CHICAGO, ILL.

W9LW

Lucia Mida

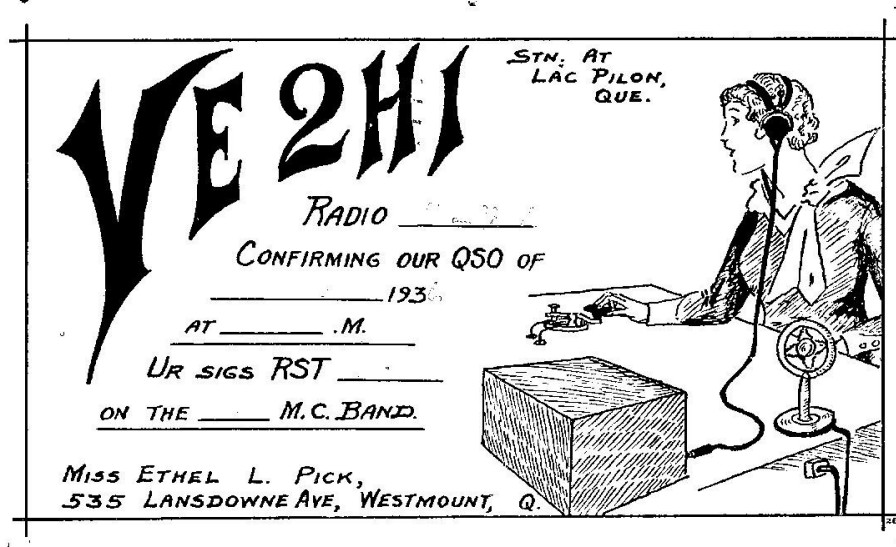
CRTA

The Way We Were

The back of this QSL has Lucia praising East Coast beaches, especially those on Cape Cod, and states that she had played at “all the great old and new golf courses out of Boston.”

The term “YL” means “Young Lady,” and is applied to all female amateur radio operators, regardless of age or marital status, while “XYL” is only applied to the married. But have you ever wondered who first coined the term “YL”? It was invented by E.C. Adams of the A.R.R.L. in 1920, in a “Traffic Report” in response to an article for QST submitted by Miss M. Adair Garmhausen, 3BCK. In Adams’ response, he referred to her as “My Dear YL.” (34) The term has survived to the present day, but it is not universally appreciated by all female operators.

Ethel Pick, VE2HI, lived in Westmount, Quebec, but maintained her station at Lac Pilon, a vacation spot some 90 kilometers north of Montreal. Here’s her QSL from 1936:



An article in *The Canadian Amateur* for May, 1959 reported that Ethel was Secretary of the Montreal Amateur Radio Club, which was described as “very active,” and having some 300 members. She is said to have been a teacher for over 30 years, and then librarian at a private boys’ school. She enjoyed attending hamfests, traveling as far as Vermont and New York State for these events, and was a regular contributor to the Montreal club’s newsletter. (35)

If “73” means “Best Regards,” and “88” means “Love and Kisses,” what does “33” mean? It means “love sealed with friendship and mutual respect between one YL and another YL.” “33” was coined by Clara Reger, W2RUF of Buffalo, New York, and officially adopted as the universal “YL greeting” by the Y.L.R.L in 1940. (36)

Clara was originally licensed as W8KYR in 1933. Early in her amateur career, she became interested in message handling and was an active member of the “NYS” (New York State Net) on CW, serving also as Net Manager for many years. Following World War II, she was manager of disaster communications for the city of Buffalo. She was a longtime member of the Radio Amateurs of Western New York (RAWNY) and taught both code and message handling classes there. In her honor, RAWNY established the “Ruf ‘N Ready” code proficiency test for persons able to copy at least 7-1/2 words per minute, awarding them with a certificate showing the date and speed copied. When the decommissioned USS Little Rock was permanently moored in Buffalo harbor as a memorial to naval veterans, the rebuilt radio room was dedicated in her honor. (37)

The Way We Were

Clara could copy code in excess of 50 WPM, and once earned the Edison Award for her contributions to amateur radio. (38) I worked Clara on one of the 80 meter CW traffic nets, and here's the QSL she sent me:



The back of the card says she would soon be teaching code classes at the Buffalo American Red Cross facility, and that she was in charge of Civil Defense RACES for the State of New York. She was a highly respected operator, much admired by all who knew her.

It is quite common for amateur radio operators to also be involved in professional broadcasting. One of the most famous old time shortwave broadcasters was the Costa Rican station TI4NRH, operated by Amando Cespedes Marin, and a small staff of family members in the city of Heredia. Amando and his family also operated amateur station TI4AC, which was crystal controlled on the 20 meter band.

One of the operators at both the ham station and broadcast station was Amando's daughter, Lidylia Cespedes Arias. Here's a QSL from TI4AC, dated 1940. It shows all three staff member-operators, including Lidylia:



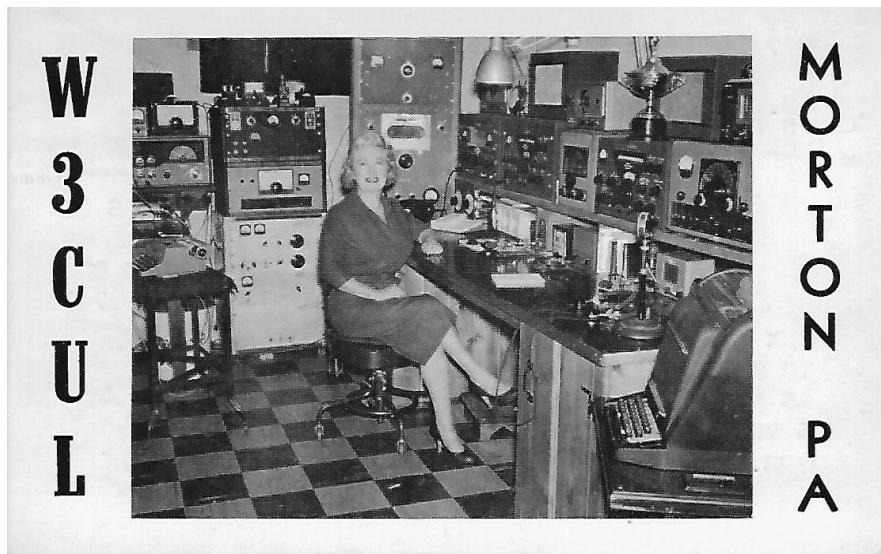
The Way We Were

The history of TI4NRH is quite an interesting one, and there are several sources online that may be consulted for further information. (39), (40)

One of the most well known “radio ladies” in history was Mae Burke, W3CUL. Mae was first licensed in 1932, and remained active throughout most of her life. Her first rig was built by her then boyfriend, later husband, Al Burke, W3VR. Mae is best known for her legendary dedication to message handling, both in the form of phone patches and formal messages. She was originally active on the A.R.R.L. traffic nets on CW, handling nearly one million messages during her ham career, including messages handled via the MARS program (Military Affiliate Radio System). In 1956, she received the Edison Award for her efforts. (41) Later, she set up an independent traffic system with longtime friend “Red” Barger, W3CVE, and I can clearly recall her distinctive “fist,” sending all messages on a “bug.”

Later, the Burkes relocated to Florida, but remained active in message handling. For a lifetime of dedication to public service, Mae and husband Al were awarded the A.R.R.L. Humanitarian Award in 1997, shortly before Mae’s death at the age of 86, and Al’s death at the age of 93. (42)

Here’s a QSL I received from Mae, the result of my handling messages to New Jersey for her back in 1972 on the Pennsylvania Phone Net:



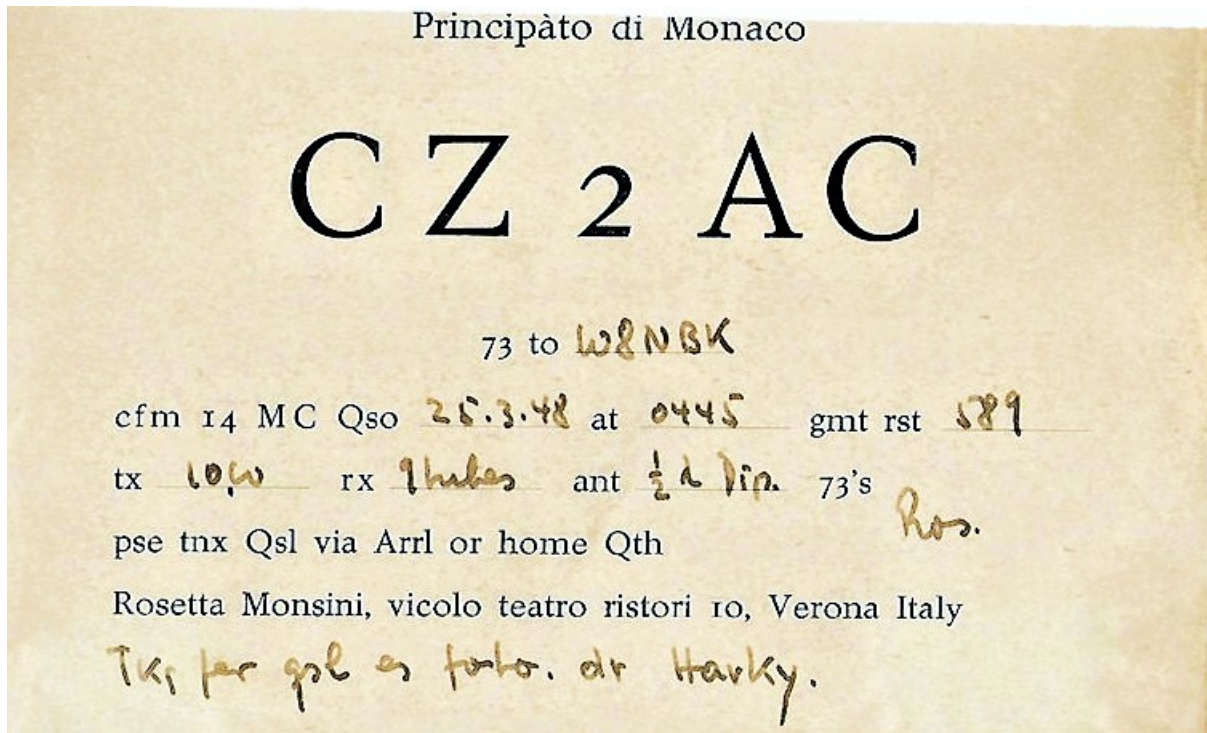
The “trophy” on top of the Collins receiver at right is Mae’s Edison Award. Notice that there is a key, microphone, and teletype machine in the Burke’s well equipped shack, reflecting all the most popular modes in those days. These were truly dedicated, versatile hams!

We close with a little mystery. It concerns station “CZ2AC,” operated by “YL” Rosetta Monsini in 1948, an Italian national from Verona. The station is stated to be located in the Principality of Monaco. There’s only one problem with this.

Although the prefix “CZ” was authorized for Monaco at the 1928 Radio Conference in Washington, the “CZ” prefix was authorized only for government “Posts,” (telecommunications authority), the military, maritime services or other administrative use. There was no legal amateur service there until 1950, when the official prefix for amateurs was, and remains, 3A. (42)

The Way We Were

So who was Rosetta Monsini? I cannot tell you. No info exists about her online, only several references to her unauthorized operation as "CZ2AC." Here's a real collector's item. A QSL from "CZ2AC" from 1948, sent to W8NBK:



I have made thorough searches in Call Books from 1947 through 1950, and cannot find anyone with her name listed in Italy, the Italian Islands, or the only other Italian-speaking country in Europe, Switzerland. Was she really operating from Monaco? Or was it Italy, Switzerland, or somewhere else? We'll never know, so the mystery remains. I guess it just goes to show that sometimes, even the ladies among us can be a bit "naughty!"

This column has been devoted to just a fraction of the many women in ham radio, and is dedicated to their many contributions to our beloved hobby. A thorough study of their work could fill several volumes, and those volumes would have to be constantly updated. If additional interest warrants, at least one more column can be devoted to this subject.

Next month, a look at some QSLs from the "famous" among us.

73,

Fred W2AAB

The Way We Were: Notes

1. Numerous examples can be found in Ham Register: 1958, Edited by Arthur E. Lewis, W3VKD, Ham Register, Inc., Indiana, PA, 1957
2. Bartlett, Richard A., The World of Ham Radio 1901-1950: A Social History, p. 85
3. "Female Radio Amateurs From the Early Days Until 1945: The YL Story," www.dokufunk.org
4. "Pre-1939 YL Operators in Chronological Order," (Excel file): www.dokufunk.org
5. Bartlett, Ibid.
6. Wikipedia article: "Women in Early Radio."
7. "Home of Early YL is Kansas Museum," from "Past and Present YL Newsmakers," Sisterhood of Amateur Radio: www.soar-yls.com
8. Ibid.
9. Social Security Death Index: Gladys G. Hannah
10. Ham Register: 1958, p. 142
11. "90th Anniversary of G6YL," *Southgate Amateur Radio News*, at: <http://www.southgatearc.org/news/2017/march/90th-anniversary-of-g6yl.htm>
12. Page, Brian R., N4TRB, "The Internet is a Wonderful Thing," *World Radio*, February, 2008, at: <http://n4trb.com/AmateurRadio/The%20Internet%20is%20a%20Wonderful%20Thing.pdf>
13. "A Tribute to Barbara Dunn," British Young Ladies Amateur Radio Association, at: <http://bylara.org.uk/thoughtful-reading/englands-first-yl-radio-operator/>
14. "Odette Cecy Chaves, Pioneer Radio Amateur in Brazil," (Translated) from: pu4pyo.blogspot.com
15. "Little Eva," Encyclopedia Britannica online.
16. Wikipedia article: "Uncle Tom's Cabin."
17. Peterson, Dr. Adrian M., "Radio to the Rescue Part III, On the Rocks," From "Reminiscing With a Radio," at: <http://www.ontheshortwaves.com/Wavescan/Reminiscing4.html>
18. (Ballantine, Bob, W8SU), "H.M. King Farouk I of Egypt and Sudan *1920-1965* SU1A," at: <http://www.oldqslcards.com/farouk.pdf>
19. Bien, Anita Calcagni, W8TAY, "Radio's 1942 YL Section Featuring YLRL," *Radio* magazine, January, 1942, pp. 29-34
20. "Alice L. Picard in the 1940 Census," at: <http://www.archives.com/1940-census/alice-picard-ny-66118620>
21. Social Security Death Index, "Alice L. Picard," Staten Island, NY, at: https://www.familysearch.org/search/collection/results?count=20&query=%2Bgivenname%3AAlice~%20%2Bsurname%3APicard~&collection_id=1202535
22. F.C.C. License Search, W2WP, at: <http://wireless2.fcc.gov/UlsApp/UlsSearch/license.jsp?licKey=790022>
23. Halper, Donna, et al., "Elizabeth M. Zandonini W3CDQ *1898-1989* at: <http://www.oldqslcards.com/w3cdq.pdf>
24. Ibid.
25. Ibid.
26. Thompson, Ed., W3CQS, "8-Year Old Jean Hudson is Licensed Radio Amateur...The Story of the World's Youngest 'Y.L.'," *Radio* magazine, June, 1933, p. 7
27. Weibliche Funkamateurs von den Pionertagen bis 1945 – Listen, QSL Karten, Fotos: Die YL Story, at: http://dokufunk.org/amateur_radio/contributions/index.php?CID=2031
28. Wikipedia article: "Young Ladies Radio League," at: https://en.wikipedia.org/wiki/Young_Ladies_Radio_League

The Way We Were: Notes

29. "K4LMB – February 5, 1997," (Obituary), at: <http://www.qcwa.org/k4lmb-02491-sk.htm>
30. "Ms. Lenore Kingston Jensen W6NAZ," at: <http://www.oldqslcards.com/w6naz.pdf>
31. Ibid.
32. "Lenore Kingston-Biography" at: <https://www.imdb.com/name/nm0455584/bio>
33. Wikipedia article: "Lucia Mida," at: https://en.wikipedia.org/wiki/Lucia_Mida
34. "The Lace Bordered Ad: 77 Years of the YLRL Past, Present and Future," PDF file at: <https://w5nor.org/presentations/ylrl.pptx>
35. Gillespie, Lois, "The YL Page," *The Canadian Radio Amateur*, Vol. 1 No. 5, May, 1959, p. 17
36. K6MHE website: <http://k6mhe.com/wars/YL.html>
37. "Women in Amateur Radio – Clara Reger W2RUF," *The Klarion, Newsletter of the Keuka Lake Amateur Radio Association*, Winter, 2015, p. 14
38. Ibid.
39. Cespedes-Marin, Amando, "Me and my Little Radio – NRH," *West Australian Wireless News and Musical World*, April 18, 1932, p. 31, at: https://www.kevinchant.com/uploads/7/1/0/8/7108231/west_austrian_wireless_news_18-4-1932.pdf
40. Moore, Don, "The Unique Story of TI4NRH," at: <http://www.pateplumaradio.com/central/costarica/ti4nrh.html>
41. (Ballentine, Bob, W8SU), "Mary A. Dougherty "Mae" Burke W3CUL *1911-1997* at: <http://www.oldqslcards.com/w3cul.pdf>
42. "Monaco 3A2AA, etc." at: <https://docplayer.fr/20394341-Monaco-3a2aa-sera-signalee-sans-aucune-indication-sur-l-operateur-ni-sur-la-date-de-son-indicatif.html> (Rough translation of French text)

Can YOU find Ducie Island on the map ?

Ducie Island 2018
VP6D
 CQ Zone 32 - ITU Zone 63
 Loc CG75 - IOTA OC-182

The Perseverance DX Group appreciates the support and cooperation of the officials and people of the Pitcairn Islands. We also recognize the outstanding contributions of Captain Matt Jolly and the crew of the Braveheart who were as much part of the expedition team as the radio operators.

The VP6D team wishes to thank our many Corporate, Foundation and Club sponsors, as well as hundreds of individual contributors.

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To Radio : W2NPT
 VP6D confirms the following QSO(s):

Date	UTC	Band	Mode
2018-10-26	23:00	15m	CW

Thanks for QSO & QSL, 73, de VP6D

VERIFIED
 MOURX
 TRACK THE QSL

If you look closely at the center right, you will see that this rare QSL card is addressed to W2NPT. George, W3EH -- operating from our club station -- contacted VP6D using CW in October, 2018. This was DX worth celebrating, so we 'ordered' the QSL card from the DXpedition.

Tech Talk

Computers and Ham Radio

Our annual membership survey tells us that a lot of FLARC members are interested in learning about and using various forms of information technology to aid their enjoyment of amateur radio. Our club is fortunate that there are many members who can answer questions and provide mentoring on a wide range of computer topics. Since scheduling face-to-face meetings is often problematic, it is helpful to have additional sources of guidance. One such source is the long series of audio podcasts named Linux in the Ham Shack (LHS).

The hosts - Russ K5TUX, Cheryl W5MOO, and Bill NE4RD – cover a very wide range of topics. They discuss various Linux distributions and utility programs, of course. Frequent show segments mentioned the next Linux and open-source conferences. They will give you ample time to register and attend events such as the Ohio Linux Fest, GNU Radio Conference or the Open Source Summit North America. Even if you cannot go to these conferences, it is helpful to know that they exist and when they are held because they often publish a volume of conference proceedings and submitted papers which may address topics of interest to you.

Podcast segments containing Linux information are helpful to the beginner and the expert. You can hear about the latest updates to popular Linux distributions like Ubuntu, Mint, SUSE and others. News about changes to the Linux kernel is always an important topic. Lots of useful utility programs are covered – some briefly and some in detail. Recent examples of these topics include Linux Audio Deep Dive (episode #247), Linux App Package Deep Dive (episode #235) which tells you how to get applications outside of the standard repositories, SvxLink, an advanced repeater controller and EchoLink software (episode #221), mumbleRF which connects radio transceivers to Mumble/murmur servers in order to extend the range of radio-frequency communications (episode #223), and FFmpeg which is the leading multimedia framework, able to decode, encode, transcode, mux, demux, stream, filter and play pretty much anything that humans and machines have created (episode #223).

Amateur radio segments might give you a brief introduction to a topic or a very deep dive into a subject which needs some time to explain thoroughly. Recent episodes covered FreeDV which is a Digital Voice mode for HF radio (episode #242), a FlexRadio Deep Dive (episode #230), multiple episodes on WSJT and FT8, amateur satellite operations and the open-source SATNOGS project, and explanations of software defined radio and how to use them. One episode useful for newer hams is Amateur Radio Resources Deep Dive (episode #250) where the gang informs us about where to get news and help on getting licensed, getting smarter, getting gear, getting parts, getting involved and much more.

There are many more topics than can be listed here. Your best approach to finding episodes of interest is to read the available Show Notes which you will find under the Contents menu tab on the LHS website. They announce the upcoming amateur radio contests and tell you how to participate. Some of these ham contests are obscure and you might have missed them without a reminder from LHS. Example contest news includes the ARRL 222 MHz and Up Distance Contest, the Worked All Capitals event and the Collegiate QSO Party.

To keep you from getting bored and sleepy, the LHS gang includes some useful non-radio content too. Some favorites are Cheryl's recipes. Try her Pepperoni Pizza Pasta Salad (episode #252) or her One-Pot Teriyaki Chicken and Rice (episode #240). Russ and Bill might comment on a new beer or liquor they have sampled. The gang frequently comments on recent happenings in the world of social media.

So, if a somewhat offbeat podcast which isn't exclusively ham radio oriented is your cup of tea, or pint of lager, then Linux in the Ham Shack might become your favorite entertainment.

For Randy's notes, see page 40.

73,
Randy WU2S

Around The Club

Nice to hear newly licensed Ray CALL? and Kevin K2KJS gabbing on the repeater on President's Day.

Randy WU2S did a spot-on presentation on MESH networking for the at the Auxcomm Symposium at Cooper University Hospital MCC in Camden, NJ on February 16th.

Aly ALOY did a presentation on interesting applications of Arduino and Raspberry Pi controllers on February 18th at ARCSquared in Fairfield . Topics included how simple it is to collect temperature, humidity, voltage, position and other data. Also, hotspots, and other server applications. Think IoT over Amateur Radio.

The Monday night net continues to flourish with an average of **17** per Monday in February.

Don't forget to update your profile at **www.qrz.com**. The more you operate, the more look-ups you get and it's nice to give FLARC a mention and make us famous.

Additional FLARC Station Openers Announced

In order to increase the number of days the club can be opened, the following members have been either volunteered or appointed to open the station. The schedule make take a bit to fall into place but here are the those besides Council members or trustees:

CallCa	Name
NK2Q	Dave
W2NZ	Thom
W2KBF	Karl
KD2MOB	Dave
NP4H	Nomar
W3EH	George
W2AAB	Fred
WX2R	Ed
KD2KLN	Brian

Nobel Laureate Joe Taylor K1JT Highlights March 15th FLARC 2019 Speaker Series -- "Beyond FT8"

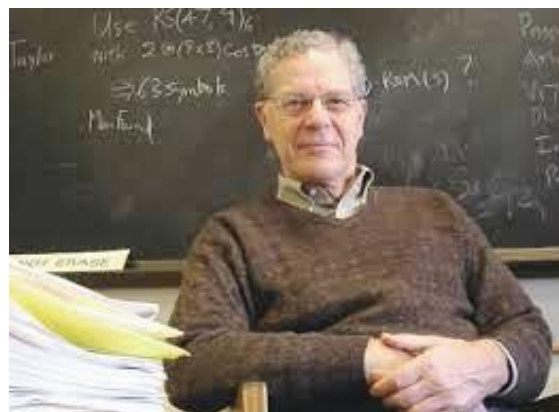
FLARC is honored to have as it's March speaker Joe Taylor K1JT who will speak on "Beyond FT8." The talk will be held on Friday, March 15 at 7PM at the Fair Lawn Senior Center, 11-05 Gardiner Road in Fair Lawn. All are welcome and refreshments will be served.

Joe Taylor was first licensed as KN2ITP in 1954, and has since held call signs K2ITP, WA1LXQ, W1HFV, VK2BJX and K1JT. He was Professor of Astronomy at the University of Massachusetts from 1969 to 1981 and since then Professor of Physics at Princeton University, serving there also as Dean of the Faculty for six years and retiring in 2006.

He was awarded the Nobel Prize in Physics in 1993 for discovery of the first orbiting pulsar, leading to observations that established the existence of gravitational waves. After retirement he has been busy developing and enhancing digital protocols for weak-signal communication by Amateur Radio, including JT65, WSPR, and FT8. He chases DX from 160 meters through the microwave bands.

Joe's full autobiographical statement is on the Nobel Foundation web site:

<https://www.nobelprize.org/prizes/physics/1993/taylor/biographical/>



Joe Taylor K1JT

Morse Code Classes Are Back Up To Speed

Following a brief Winter break, Morse Code Classes have resumed on Thursday evenings at the Community Center.

Morse Code no longer is required for an Amateur Radio License but now is studied after licensing because Hams continue to find it interesting. George "Bulldog" Rand, W3EH and Fred "CW" Belghaus, W2AAB, lead these sessions which are well attended and appreciated by FLARC members. Classes are informal and topics of general interest are discussed during the frequent breaks that allow brains and wrists to cool off between code sessions.

Experienced CW operators are welcome to sit in. Several students have devised their own mnemonics and phrases that have helped them to learn code. For example, the rhythm of opening notes from Beethoven's 5th Symphony sound like the pattern of the letter "V" and the phrase "the 'ELL with it" sounds like the letter "L". While both instructors insist that students should learn code by its sound, not by studying dots and dashes on paper, they are OK with use of mnemonic aids if individuals find these useful.

DE Karl W2KBF

Speaking Of Code Classes, How About Thursday Nights At FLARC?

You've asked for more open nights in the Member Survey and it looks like it's working. Every week since the "soft launch" the number of members have grown with open house and code classes. The February 21 session drew 13 attendees, up from five, six and eight the weeks prior. The trend is positive.

And... the club was open during the afternoon of the 21st and Stan KC2K saw the announcement and stopped in... with CW QSO's to AZ and WI.

Spreading the word helps to spread FLARC club capacity... more time for more things for more members.

UFO's Invade My Shack At Dinnertime

Jim W2JC sent along an interesting pix of his newly restored Hex beam .

It's up so high it needs aviation lights!



The W2JC Hexbeam with visitors

March 2019 Near and Far Net Controls

Here is the roster for net controls for the upcoming month as reported by Brian KD2KLN:

Date	Net Control
March 4	KD2KLN
March 11	KD2MOB
March 18	ALØY
March 25	???

The Near and Far Net now averages close to 20 check-ins on an average week! Cool beans.

But we need more volunteers to be net controls -- if everyone takes their turn it's less burden on the others. And it's easy. Volunteer --- don't wait to be asked (unless you really want to be flattered).

Past FLARC Member Profiles

Here is a list of past member features and we welcome your recommendations for new profiles -- including your own.

Month	Name	Call Sign
January 2016	Pete	KB2BMX
February	Marco	KC2ZMA
March	Ron	KC2TBD
April	Kai	K2TRW
May	Larry	WA2ALY
June	Dave	N8MAR
July	Steve	W12W
August	Thom	W2NZ
September	Brian	KD2KLN
October	Brad	KM2C
November	Al	WA2OWL
December	George	W3EH
January 2017	Fred	W2ABE
February	Dave	KD2MOB
March	Randy	WU2S
April	Lee	KD2DRS
May	Gene	WO2W
June	Carol	KD2NMV
July	Kevin	KC2KCC
August	Robert	KD2NOG
September	Robert	KD2BKD
October	John	KD2NRS
November	Fred	W2AAB
December	Margaret	W2GB
January 2018	Brian	KD2OAZ
February	Bennett	KO2OK
March	Van	W2DLT
April	Aly	ALØY
May	Bruce	NJ2BK
June	Dave	N2AAM
July	Karl and Susan	W2KBF and W2SKT
August	Steve	KA2YRA
September	Paul	K2PJC
October	Skip	KD2BRV
November	Jim	W2JC
December	Tom	N2AAX

By the way, Randy (WU2S) has compiled a binder of all back issues of *The Resonator* and it's located in the club office. Thanks Randy!!!

Back issues are also available on our website.

<http://newsletters.fairlawnarc.org>

2018 FLARC Attendance

In a timeless ritual, each week upon entry into the clubhouse you sign-in. It's important in providing usage information to the borough, but does anything really happen to it?

The answer is "Yes"! Judith KC2LTM gathers and manages the information and passes it along to Ed WX2R who compiles it. The data is now used to help better understand how the clubhouse is used and by whom. In all clubs, members are constantly "trading up" (attending more for various reasons) or "trading down" (attending less due to interest, work and life pressures, etc.)

In 2018 we logged attendance at 47 of the 52 Fridays. A total of 130 members and guests attended at least one Friday night (and signed in).

Here are the top 20 members in 2018 attendance with a tie to Brian KD2KLN and George W3EH.

Member	Call
Brian	KD2KLN
George	W3EH
Brad	KM2C
Jim	W2JC
Kevin	K2KCC
Randy	WU2S
Ed	WX2R
Judith	KC2LTM
Dave	N2AAM
Ron	KC2TBD
Fred	W2AAB
Zach	KC2RSS
Karl	W2KBF
Fred	W2ABE
Van	W2DLT
Al	WA2OWL
Bennett	KO2OK
John	W2JLH
Tony	N2SIQ
Gene	WO2W

Around the Shack

de Hal N4GG/4

Mystery UHF Connectors

“You get what you pay for” is certainly true when it comes to UHF connectors, including PL-259s, SO-239s, UG inserts, barrels, etc. Every hamfest seems to have at least one vendor selling “mystery” UHF connectors. Often these are found in the flea market, but they are sometimes sold inside by reputable vendors. Mystery PL-259s cost as little as \$1.

What are you buying when you spend \$1 for a PL-259? Nobody knows. Even the seller in the flea market doesn’t know – he just knows its “great stuff.” Without a doubt it’s not.

PL-259s are simple enough, right? What could go wrong? A lot can go wrong. PL-259s have four parts: The outer sleeve called the “knurled nut,” the connector body, the insulator/dielectric and the center pin. All four components can be compromised to the point of making a bargain connector useless.

Here are frequently encountered problems:

Finish – Bargain connectors sometimes have a finish you can’t solder to. The non-solderable ones often have a chrome-like appearance, but some that look good are in fact impossible to solder to.

Threading – The internal threads at the tail of a PL-259 are there to accept a UG-style insert, used to narrow the connector barrel to accept smaller-diameter coax such as RG-8X or RG-59. The threads on a PL-259 and/or a UG insert may be metric! Some bargain PL-259s will not accept an English thread (the US standard) UG insert. The knurled nut may also be metric.

Dielectric – Good connectors use quality phenolic or Teflon insulation between the center pin and the body. Bargain connectors might use anything, including materials like polystyrene, which will melt when the center pin is soldered.

Center pin diameter: This is one of the most common and insidious problems in mystery PL-259s. The center pin OD is often slightly smaller than it should be, and it’s hard to notice. The center pin connection between a PL-259 and an SO-239 or barrel connector depends on correct diameters of the pin on the male plug and the mating fingers on the female socket. The fingers on the SO-239 socket must be made of the proper spring material (beryllium copper).

In addition to mystery SO-239s in which the center pin spring tension relaxes over time and/or temperature, the annulus flange that mates to a PL-259 may only have four indentations (“Four cuts” or “Four V” in connector lingo) to match up with the nipples on the body of the male connector. The SO-239 and barrel connectors I prefer have indentations all the way around the circumference (“Sixteen cuts” or “Sixteen V”). It is nearly impossible to mismatch a quality PL-259 to a sixteen cut SO-239 or barrel connector.

With poor quality components, PL-259-to-SO-239 connections can become intermittent over time. They also become temperature sensitive when used outdoors. At N4GG I have had to replace several mystery PL-259s in the back yard that would be fine most of the time, and an open circuit on a cold day. I have had A LOT of intermittent linear amplifiers on the repair bench at N4GG. One particular amp manufacturer uses dismal quality SO-239s for the RF input and output connections and the spring tension is so bad – even when brand new – that they simply have to be replaced. You can tell bad ones quickly – slide a PL-259 into an SO-239. It should fit snugly. If it doesn’t, one side or both sides are most likely junk.

Around the Shack, continued.

As bad as mystery PL-259 and SO-239 connectors can be, there is something worse. The really bad actors are Tee and right-angle (elbow) UHF adapters. Take a close look at what has to happen inside these adapters. The center conductor has to make a right angle turn inside the shell. How do they do that? In poor adapters the right angle connection is done with a spring contact, and these do not hold up – particularly at QRO power. Quality Tee and right angle adapters have internal conductors that are tapped and threaded. The male side center conductor is screwed into the female side(s) within the body at the right angle junction. Adapters made this way are very reliable.

How can we tell the good connectors from the junk? Price for one. If the price is too good to be true, it probably is. Finish is another tip-off. PL-259s with good silver plating have a dull appearance. Last but not least is the fact that all mystery UHF connectors have one thing in common: Mystery! Good connectors have a part number and the manufacturers name stamped onto them. You can look up the connector's specifications if it's marked. Examples of this are connectors made by Amphenol, all of which have part numbers stamped onto or into the connector body. Old-timers are fond of saying: "Amphenol or not at all," although there are now other suppliers offering quality connectors. For the difference of a dollar or two, "mystery" UHF connectors are a very poor investment.

Note: The above is paraphrased from an article I wrote for the March/April 2017 issue of NCJ magazine, and some of the material appears in the 20th edition of the ARRL Handbook. It is used here with permission of ARRL. Sadly, there has been a new development since I wrote this in 2017.

My advice in 2017 was to look for PL-259s, SO-239s, etc. that are marked. "Amphenol or not at all" has always been a safe bet and all of their connectors are marked. They are worth an extra dollar or two. Some Amphenol PL-259s come in a sealed bag filled with dry nitrogen. NOS (new-old-stock) Amphenol connectors in sealed bags can still be found with a little looking. Ones from the 1960s and 1970s are as-new as they come out of the bag.

The bad news: Beginning in 2017 a new offering of rogue UHF connectors appeared at the Dayton hamfest - ones made in China and MARKED Amphenol. They ARE NOT Amphenol and they fall squarely in the junk category.

How to identify a phony "Amphenol" PL-259:

- 1 - With a wet finger you can rub the marking off. I guess junk connectors deserve junk ink!
- 2 - The center pin on an authentic Amphenol PL-259 is molded into the center insulator. Look inside one of the phonies and you will see the inside-the-barrel end of the center pin is square, and obviously crimped to the center insulator. You can sometimes twist the center pin with your fingers.
- 3 – The price is too low.

In the original article I also mentioned there are some perfectly good UHF connectors that are not branded, but, also, not mysterious. Two sources for excellent UHF connectors that are manufactured specifically for the houses that sell them are:

- "MAX-GAIN Systems, Marietta, GA. WWW.MGS4U.COM Known for fiberglass poles and push-up masts, MAX-GAIN also sells a variety of UHF and other connectors. MAX-GAIN's PL-259s are silver plated brass with a high quality Teflon center insulator - that's as good as it gets.
- "The RF Connection," Gaithersburg, MD. WWW.THERFC.COM In addition to their in-house UHF connectors, which are excellent, they carry Amphenol connectors and have a good stock of NOS Amphenol as well.

Around the Shack, continued.

Both vendors' connectors are manufactured for them, to high-quality specifications. You can call either company and the principals can tell you everything there is to know - dielectric type, center pin ID and OD, plating, etc.

There is no mystery involved!

One additional note: Given a choice, I avoid gold-plated UHF connectors. Gold does not tarnish and maintains its solderability forever, but gold-plating is often found on mystery connectors and silver is a better conductor than gold.

It's the seemingly mundane parts '*Around the shack*' that cause a lot of problems!

DE Hal N4GG/4

Notes

Figure 1.

An Amphenol PL-259 in an Amphenol bag. The bag and connector are both marked. You can't go wrong here.



Figure 1

Figure 2.

Examples of Amphenol PL-259 connectors. The left one is marked in ink, the center and right one have their markings stamped into the body. All carry both the name of the manufacturer and a part number. The inked PL-259 is an authentic Amphenol.



Figure 2

Around the Shack, continued.

Figure 3.

An Amphenol and an unmarked PL-259.

The unmarked part was bought from MAX-GAIN and is known to be an excellent product.



Figure 3

Figure 4.

An Amphenol UG insert.

Note, the part number is stamped into the part and the finish is dull – it's silver plated, top quality.



Figure 4

Figure 5.

SO-239s. The one on the left is an old Amphenol that is clearly marked. The marks include the manufacturer, the type and the part number – there is zero mystery about what this is. The one on the right is a “mystery” connector. The old Amphenol fits tightly with a PL-259 and is perfectly serviceable. The nice shiny brand new one on the right is junk – a PL-259 slips into it so easily the connection is intermittent.



Figure 5

Fair Lawn RACES Corner (Continued)

Now, getting back to FL-RACES:

On Wednesday, March 27th, FL-RACES will be the Net Control Station for the Bergen County-RACES Net. We will be operating from the FLARC location at the Community Center.

As a reminder, the Bergen County RACES nets are held on the 2nd and 4th Wednesdays every month at 19:45 and various towns host these nets throughout the year. Two repeaters are utilized for these nets - Paramus, NJ (RX 146.79 / TX 146.19, PL TX Tone 141.3) and Franklin Lakes, NJ (RX 146.79 / TX 146.19, PL TX Tone 162.2). The Franklin Lakes repeater is the primary repeater.

Our next FL-RACES **KB2FLR** net will take place on Wednesday, March 13th at 19:00 hours. The Fair Lawn ARC Repeater is used (RX 145.47 MHz / TX 144.87, PL TX Tone 167.9 Hz). Thank you to the Fair Lawn Amateur Radio Club for permitting FL-RACES for using the repeater.

On Wednesday, May 1st, we will be participating along with FL-CERT in emergency preparations and responses - learning and discussing first aid, the proper use of generators and radio control. There will be more information on this training exercise in a future edition of The Resonator.

The volunteer efforts of our members are very much appreciated. All of the events noted above could not have happened without you.

Our monthly meetings usually take place right after the FLARC business meeting. Please join us for the next FL-RACES meeting.

If you are interested in joining the Fair Lawn RACES, please contact me. You don't have to be a Fair Lawn resident to be a part of Fair Lawn RACES.

For information regarding Bergen County RACES, please go to <http://www.bcnjraces.org>.

Thank you very much. See you soon and 73.

DE Dave KD2MOB

Ed-itorial: The Say-Do Ratio

"Commitment" is an interesting word. One of its definitions is "devotion or dedication, e.g. to a cause, person, or relationship". It's a heavy-duty word. It means something...and we all know that words matter.

In the recent member survey, 56 members responded "yes" to the question: "*Would you be willing to contribute to a capital equipment fund to help upgrade the equipment inside the station as well as further improve the antennas in 2019? This contribution would be in addition to the annual dues and would be completely voluntary.*"

Brad KM2C has sent along a note to the membership (you'll also note a rather striking ad inside this issue) asking you to turn your word into action by making a contribution to the club in order to fund an equipment project ahead of Field Day and the rationale as to why.

The membership has asked for updated equipment and for more fun and learning such as remote operating. The council is asking you to shorten the time frame to make this happen by asking for your financial help beyond annual dues.

Don't forget that this is also a matching funds donation -- the club matches what you contribute dollar for dollar so we're getting twice the value of your contribution.

There is something I learned a long time ago called the "say-do ratio." You measure people not by what they say but by what they actually do. The higher one is, as a percentage, on the "say-do" scale... the greater their reliability reflective of their personal character and commitment. Do you know people who say that they will "try" to come to your event or to do a task? You know that to say you will "try" usually means that it won't happen.

More than 50 FLARC members "say" that they will commit financially to help make this project possible. Now is the time to "do." Thanks.

DE Ed WX2R



STARTING 2019

Fair Lawn Amateur Radio Club is looking for monetary gifts to the club to purchase new HF Transceiver(s)

FLARC will be accepting monetary gifts throughout 2019

- Our goal is to support purchasing at least one new HF radio by June to have it for 2019 ARRL Field Day
- The club will match monetary gifts 1:1 up to \$2500. If the club receives \$2,500 it will match that with another \$2,500 for a total budget of \$5,000 in this example
- This year more than half of the member surveys indicated that they would be interested in a monetary gift to the club
- Our current radios are aging, are no longer produced, and will not last forever
- This purchase is part of the 2 year improvement to the club's operating stations and capabilities

Contact the Treasurer to submit your gift:

treasurer@fairlawnarc.org



The new radio(s) will:

- Bring Software Defined Radio to the club to reach education goals on the topic of SDR
- Allow FLARC to operate Field Day Class 4A and without having to borrow radios
- Permit FLARC to be more competitive in contests and events
- Reduce station setup complexity when configured for digital mode operation
- Support software updates that allow the radio to be future-proof
- Enable remote access to the club's radio(s)
- Will give you access to a SDR Radio at a fraction of the cost of purchasing it yourself
- Continue to recognize FLARC as New Jersey's premier Ham Radio club

Save The Date: April 19, 2019
The Garden School -- Bringing Amateur Radio To Today's Youth

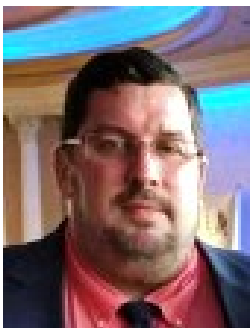
Bringing youth to amateur radio is a holy grail for many hams. But a small school in Queens has accomplished just that and with award-winning results. John Hale, KD2LPM will lead a panel discussion on the development and growth of a club which has been nationally recognized for its achievement. The Garden School launched the club in 2016 after it received equipment from a donation to the [New York Hall of Science](#) (NYSCI). NYSCI continues to be a big help to the club, mentoring them through the Hall of Science Amateur Radio Club and the American Radio Relay League.

The school's station stands out as the only active radio club in any of the city's schools. Students from the sixth through 12th grade can join, and the club was recently awarded a blue ribbon at the [Maker Faire](#) for its innovation, creativity and ingenuity. The school's radio club, which has grown to around 20 members since launching last year, has competed in contests and learned all about operating ham radios from inside the 78th Street school.

John Hale KD2LPM

John has been a science teacher at Garden School for the past 22 years.

He holds a General Class License and has been licensed since 2016. He is an Official Relay Station for the NYC/Long Island area, is the Deputy Coordinator of Net Operations for the NYC/Long Island Skywarn Program, Secretary of the Hall of Science ARC, the Net Manager for the New York / Long Island Student Traffic Net, a volunteer instructor and examiner for the ARRL, and the recipient of the Amateur of the Year for 2018.



John Hale

Gerard Pilate N2WGF

Jerry retired from Consolidated Edison of New York as a technical specialist, section head of the Electrical Maintenance Engineering and Test Group of Con Edison's Maintenance and Construction Services Division. He is a retired member of IEEE, IAIE, and NFPA and is a former instructor of electrical apparatus for the ETC Inc. of NYC, a training school for master electricians. He currently serves as a technical consultant for RA Hoffmann Engineering.

After retiring, Jerry had time to pursue his passion, ham radio. Jerry is presently the president of the Hall of Science Amateur Radio Club (HOSARC). He is a licensed Amateur Extra with the FCC and is currently serving as the American Radio Relay League's NTS Section Traffic Manager for Long Island and New York City. He is a volunteer instructor and examiner for the ARRL.



Gerard Pilate

Michael Ricatto KK2KKK

Michael Ricatto is an Amateur Extra Class and is a successful entrepreneur and businessman.

He is devoted to his family and dedicated to serving his community. Mike is known for his work ethic and for his big heart, and has been recognized and honored for his generous contributions of both time and money to charitable organizations, political causes and to people in need.

After graduation, Mike went to work in his family's businesses, including Fratelli Ricatto Import Export Company, Red Fleet Haulage, Tally-Ho Nursery School and the Forest Hills Country Club. Today Mike is President of Ricatto Enterprises.

As Mike's businesses have grown, so has his involvement in the community. Mike serves as a member of the Board of Directors of the Italian-American Museum and is a past member of the Queens College A.C.E. Board of Directors. He has been honored as Businessman of the Year by Italian Charities of America and is the recipient of the Queens County Republican Committee Reagan Award.



Michael Ricatto

Tech Talk: Randy's References

Plan ahead!! We ran out of space on page 29 so here are Randy's references for this month:

References:

1. Linux in the Ham Shack (audio series 272 episodes) <https://lhspodcast.info/>
2. FreeDV: <https://freedv.org/>
3. Flex Radio Deep Dive [audio:
<http://bsmarchive.info/lhs/mp3/lhs230.mp3>]
4. SvxLink <https://www.svxlink.org/>
5. mumbleRF
<https://github.com/dk7lst/mumbleRF/tree/mumbleRF-1.2.19>
6. FFmpeg <http://ffmpeg.org>

In A Nutshell

Things are progressing in the Club! So far winter has been difficult but the Club is now open on Thursdays for code class and classes regarding mesh networks are in the works. There are many improvements planned for equipment and processes. Ham radio has many aspects to it ranging from contests, making contacts, casual contacts called 'rag chewing' - all the way to providing community services including but not limited to emergency communications. Then there is kit building, antenna design, using micro computers for ham radio related functions. The possibilities are endless! Bottom line is that there is something for everyone. If you are a non-ham reading this, look into the hobby and get involved! You can never tell where your interests will take you. 73, Fred, W2ABE

Have You Updated Your Listing In QRZ?

Anyone who operates should take advantage of the free listing at QRZ.com to tell the world a little bit about you.

And while you're at it, it's a good chance to tell everyone that you're a proud member of FLARC and (affectionately) what it means to you. Wear your red FLARC shirt in the picture.

It is also an excellent and convenient place to keep your log -- and very easy to then upload to LotW.

Details and setup are at www.qrz.com

Announcing the New Fair Lawn ARES

The Amateur Radio Emergency Service® (ARES) is a public service activity organized by the ARRL. It consists of licensed amateurs who have voluntarily registered their qualifications and equipment, with their local ARES leadership, for communications duty in the public service when disaster strikes.

Every licensed amateur, regardless of membership in ARRL or any other local or national organization, is eligible to apply for membership in ARES. Training may be required or desired to participate fully in ARES.

A group of local hams has formed a Fair Lawn ARES organization which has received official recognition from the ARRL and the ARRL Northern New Jersey Section leadership.

Fair Lawn ARES has a written training plan to instruct hams in the communications practices needed when responding to a local emergency. One part of this training is a weekly net on Wednesday evenings at 7:00 pm on the W2NPT repeater.

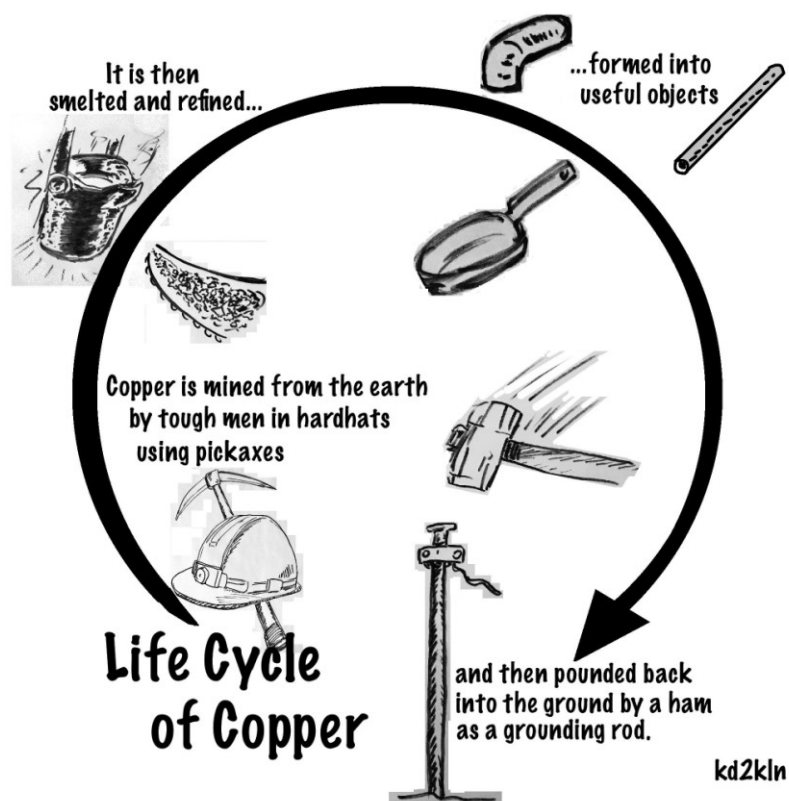
If you are interested in learning more about emergency communications and in joining Fair Lawn ARES, please contact Randy Smith, WU2S, Fair Lawn ARES Secretary via email to randy@wu2s.com.

Make your public service count by signing up at Northern New Jersey ARES Connect. To sign up for ARES connect, please use the following link: <https://arrl.volunteerhub.com/lp/nnj>

To sign up for ARES connect, you only need to have a valid amateur radio license. Membership to the ARRL is not required but encouraged. When signing up, please choose your call sign as your username.



Ham Lite By Brian (KD2KLN)



VHF Contesting Anyone??!!

It would be great if we can get more FLARC members interested in Roving during upcoming VHF contests. For all the 2018 VHF contests I just used my regular mobile FM radio setup. I did nothing special to prepare. So anyone with simple FM mobile setup can have some fun and get many points and even see a bit of Northeastern NJ and possibly Southeastern NY. Anyone interested can see me for some good high elevation locations in the four local grid squares.

I like to put it this way, it's like doing 4 contests in one day or a weekend -- as we are close to the intersection of four grid squares (FN20, FN21, FN30, FN31 all within 45 minutes). Once you cross into the next grid square it is like starting a brand new contest. The grid square multiplier also helps a lot! For each grid square worked from each grid square location used gets added as a multiplier. So one could easily make contacts from all four local grid squares to start with a grid square multiplier of 4, then work all local grids from each grid square (4x4) for more multipliers added to the original 4. This is then multiplied by the total contact points. 50MHz and 144MHz contacts are 1 point. 222MHz and 432MHz contacts are 2 points. Higher frequencies are even more points.

In the 2019 January ARRL VHF contest I upped my setup to include 432, 144, and 50 MHz SSB, in which I made 56 contacts on the four local grids and then added 10 more multiplies from the receiving grids for a total calculated score of 1106. Scoring can go up fairly fast because of the grid square multiplier. Why not give it a try?? See me for more detail!!

DE Bob KD2BKD

Monday, April 29: The Great Falls Earth Day Special Event Station



Great Falls National Historical Park, Paterson

FLARC's partnership with the National Park Service and the Passaic County Board of Education is now in its third year with special event station W2E to call attention to Earth Day and the work of the Park Service.

Introduction To Mesh Networking Class To Begin

Randy WU2S will conduct a monthly class on mesh networking starting Thursday, March 14 at 7:00 pm.

[Registration for this class is required.](#)

Use the following link:

<https://zoom.us/meeting/register/df1daee0b4b6aa7cc5b9141539e44ee6>

This class will use the Zoom.us video conference facility. You need to download and install an application to join the Zoom conference. It works on all platforms - including Windows, OSX and Linux computers and all smartphones.

We will schedule some hands-on sessions at FLARC to let you work with mesh networking devices.



Saturday, May 4: The Garretson Farm And Forge 300th Anniversary Special Event Station - W2G



Garretson Farm and Forge, River Road, Fair Lawn

History is made in Fair Lawn at one of the three pre-Revolutionary houses remaining with station W2G.

Signs Say The Darndest Things

The Garretson Farm Special Event on May 4 is quite special for Van W2DLT. His family is of Dutch heritage and his lineage traces back to the early settlements in Bergen County. He may have already received special recognition with his own event parking space!



Van W2DLT

FLARC Business Meeting Minutes 1 March 2019

President Brad KM2C called the meeting to order at 7:31 p.m.

The members rose and recited the Pledge of Allegiance. Secretary Randy WU2S called the roll of officers and trustees and all except Trustee Don N2PRT were present. The meeting had a quorum to conduct club business.

President Brad KM2C asked if there were any visitors or new members present. There were none.

Secretary Randy WU2S announced that the minutes from the February meeting were sent to all members of record and published in the club's newsletter, The Resonator, which is on the club's website at <http://newsletters.FairLawnARC.org>

He asked the members present if there were any corrections or amendments needed. There were none so Skip KD2BRV moved to accept the minutes as published and Brian KD2KLN seconded the motion. The motion passed by acclamation.

Treasurer AL WA2OWL read this month's Treasurer's Report. Judith KC2LTM moved to accept the report as read and Nomar NP4H seconded the motion. The motion passed by acclamation.

President Brad KM2C asked if there was any old business to discuss and there was none.

President Brad KM2C called upon Secretary Randy WU2S to report for the Tech Committee. Randy announced that in response to the recent membership survey, he is starting a monthly class to address the members interests in mesh networking, computer and ham radio. The class will be conducted via video conference and a sign-up is required. Sign-up at <https://zoom.us/meeting/register/df1daee0b4b6aa7c5b9141539e44ee6>

The class will be on Thursday, March 14 at 7:00 pm. Treasurer AL WA2OWL asked if the class sessions would be recorded and archived. Randy responded that the facility he uses has a recording feature so he will try it.

FLARC Business Meeting Minutes

Randy said that he will post registration instructions for this class on the FLARC website/blog and FairLawnARC.Groups.io

ED WX2R reported for the Publicity Committee. The group met on February 21 and they are working on an update to the FLARC club brochure. Ed reminds us that the guest speaker schedule includes:

March 15 - Joe Taylor K1JT. He will talk about FT8 - one of the most recent digital modes that has become very popular on ham radio on both HF and VHF.

April 19 - John Hale KD2LPM, who was a recent Hudson Division Amateur of the Year. His topic is about recruiting young people in a Queens high school and is titled "The Garden School ARC and Developing Young Hams." John is bringing two faculty members who can describe the program in detail.

The May and June guest speakers are not scheduled yet.

The Great Falls Earth Day event is confirmed for Monday, **April 29**.

Vice-President Van W2DLT told the members that he visited the Garretson Forge and Farm site (<http://garretsonfarm.org/>) with Karl W2KBF, Jim W2JC and Fred W2AAB. They found a suitable building at the site, called the Schoolhouse, for our special event station to commemorate the Farm's 300th anniversary.

Van reported that this building has electricity and a lot of tall trees nearby. The event will be on Saturday, **May 4** from 9:00 am to 4:00 pm. There is very limited parking at the Farm, so plan to travel with others.

Jim W2JC reported that a special event QSL card has been designed. Gene WO2W mentioned that he had this event listed in QST. Ed WX2R said that he will bring a history of the Farm to the club next week. It was determined that we will not need to dress in Dutch colonial attire for the anniversary.

FLARC Business Meeting Minutes



President Brad KM2C asked about the radio configuration for the Garretson event. Gene WO2W responded that we will use the same frequencies that we use for the Great Falls event.

Vice-President Van W2DLT announced that we may have Bud Trench AA3B as a guest speaker in May. Bud specializes in radio propagation studies. He provides analyses prior to many of the major radio contests.

Jim W2JC reported that web traffic is up again. He said that we received a special DX QSL card recently thanks to George W3EH who made the contact. Jim did not want to reveal any more details but the QSL card will be shown in this edition of the Resonator. [Editor's note: see page 28.]

Thom W2NZ reported that our YouTube channel traffic is up and that we acquired two new subscribers.

President Brad KM2C announced that we have started a new effort to collect monetary gifts from FLARC members to purchase new HF radios. He said that a flyer describing the program was sent to all members. [Editor's note: see page 38.] This program is in response to the annual membership survey which indicated that over half of the members would be interested in contributing a gift to the club. He said we intend to purchase the new radio, or two radios if we can, by Field Day. This will give us enough radios to run Field Day and have backups for the transceivers. One of the radios we are considering is the Flex 6400 or 6400M.

Gene WO2W asked if we would sell the Icom radios. Brad replied that no, we will keep them as spares.

FLARC Business Meeting Minutes

Karl W2KBF noted that the proposed devices are made in America. Fred W2AAB asked if the new radios could be remotely operated. Brad responded that yes, they can. They can even be used by two people remotely at the same time. The remote audio quality is good, and they have suitable security features to protect the remote operation.

Treasurer AL WA2OWL reported that we have collected \$540 and \$200 in pledges in just the first week of our fund-raising effort.

Steve WI2W asked about what a suitable contribution would be. President Brad KM2C responded that any amount will be appreciated, and we would like to raise \$20 to \$50 from each member if we can. Brad committed to teach members how to use the new radios. Many members have already operated a Flex transceiver successfully during last year's Field Day and during the January Winter Field Day.

President Brad KM2C noted that the CW classes run by Fred W2AAB and George W2EH are going well. He asked members to watch for the additional days the club rooms will be open as more opportunities to operate club radios arise.

President Brad KM2C remarked that it is not too early to start thinking about the June Field Day event. He said that we are in good shape for antennas and gear based on our recent experience. He said that this year's event should be a lot lower effort since last year's arrangements can be easily repeated. John W2JLH said that we need to get some better chairs for the CW operators and get some chair mats, so we don't puncture the tent floor. We will put these items on the Field Day planning list.

Gene WO2W asked if we will need the Ridgewood inflatable tent for Field Day. Brad responded that we would, and Gene agreed to make the arrangements.

President Brad KM2C reminded members that Brian KD2KLN is our Quartermaster. If you want to borrow FLARC equipment, see Brian to make the arrangements.

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President Brad KM2C announced that he would conduct the hands-on "art of soldering" training class sometime during the summer.

President Brad KM2C reminded members that he installed his UHF DMR repeater at the club. It is networked, so members can access other DMR talk groups. He shared the following UHF DMR Repeater information in an earlier email to all members:

TX: 446.750 MHz

RX: 441.750 MHz

CC: 1

TS1: TG 9 (Local/Reflector)

TS2: TG 310015 (KM2C TG)

Please leave TS2 on 310015. If you want to experiment with other TG, please only do this on TS1. Please send TS4000 to TS1 after you are done using that TS so it doesn't remain active on a possibly high use TG.

I am trusting in the users to follow these rules, if they are not followed the repeater will be disabled.

If you have a DMR radio and need programming, please ask and if I am not available there are a few other members who are familiar with DMR programming. If you are interested in DMR contact me and I will either help or find someone to help you with your questions/issues.

Brian KD2KLN reported that the Monday Night net is running well. He said that we need a volunteer to act as net control for the March 25 session. If you want to accept this task, please contact Brian or sign up on the Net Control whiteboard in the FLARC workshop.

Steve WI2W made a strong argument for obtaining a good quality high-speed Internet connection for the club. President Brad KM2C responded that the FLARC Council is considering potential solutions. Our current connection works for what we have now but will be inadequate when we install new Internet capable transceivers. The main issue is the monthly fee for a new connection.

FLARC Business Meeting Minutes

Judith KC2LTM reminded members that she handles FLARC's health and welfare communications. She said she mailed some cards out recently. She asked all members who know of someone, or a member's spouse or children with health issues, to contact Judith so that she can send an appropriate card on behalf of FLARC.

Gene WO2W said that he was contacted by a Jersey City teacher who wanted to get involved with amateur radio and introduce his students to it. The members present offered suggestions on how to assist the teacher.

Ed WX2R responded that the teacher should be invited to our guest speaker presentation on April 19 when we will have our guests address this topic. He suggested that Ron Durso of the Fair Lawn school district be invited too and Vice President Van W2DLT agreed to contact Mr. Durso. Ron KC2TBD suggested that the Paterson teachers we met at the last Earth Day event should be invited too.

Having no further business, President Brad KM2C asked for a motion to adjourn. Gene WO2W so moved and Tony N2SIQ seconded the motion. The members present voted in favor and the meeting was adjourned at 8:29 p.m.

Respectfully submitted,
Randy WU2S, Secretary



FLARC Logo April 1993